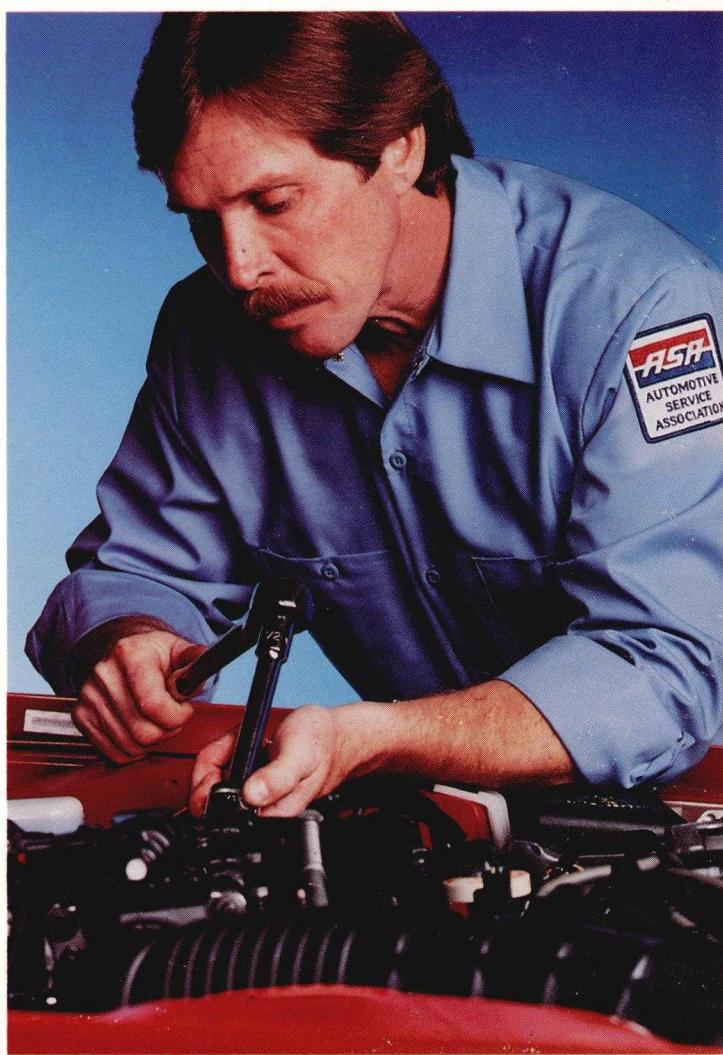
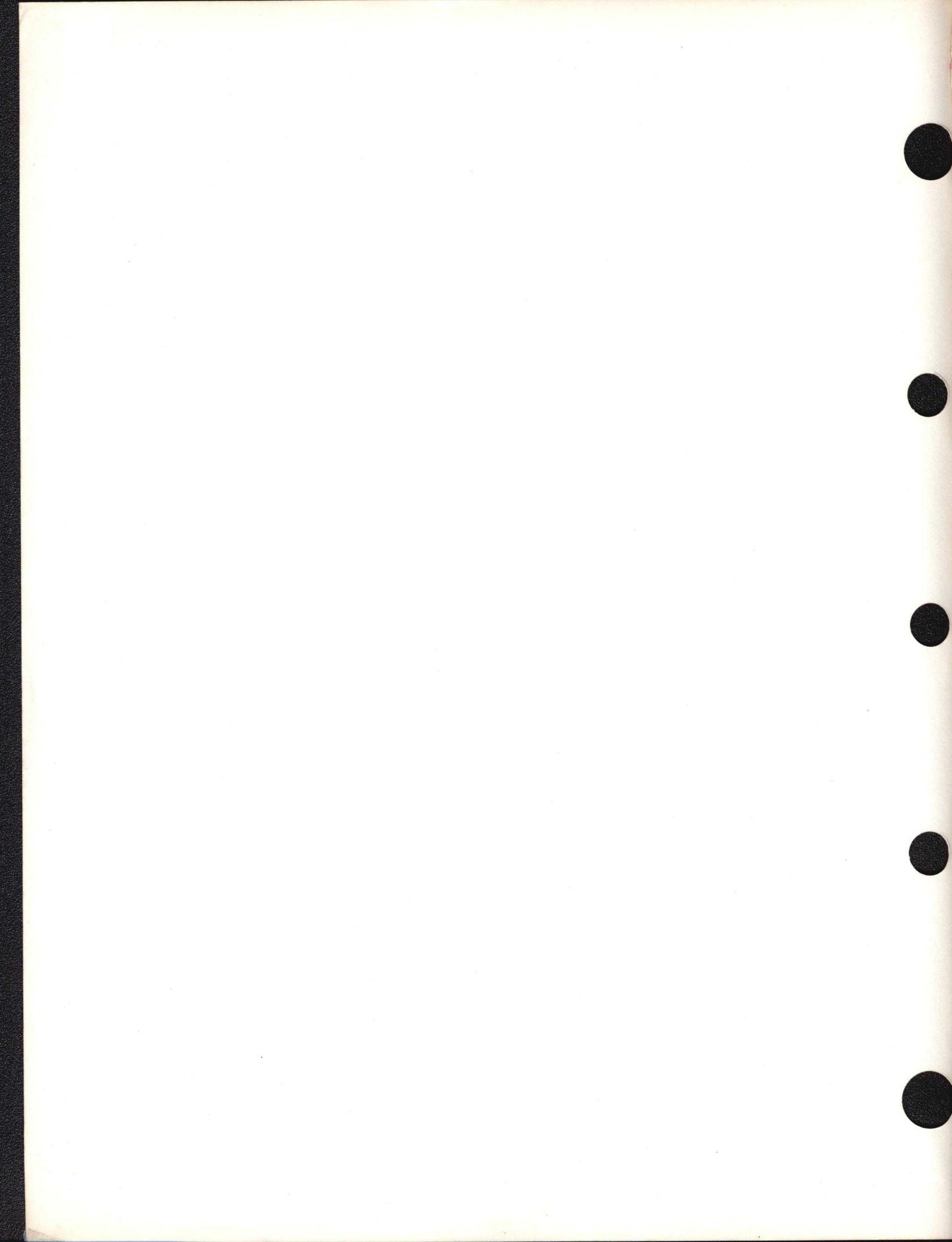


Weatherly Index No. 800

# K-D Tools®





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## The K-D Story: Growth Through Innovation

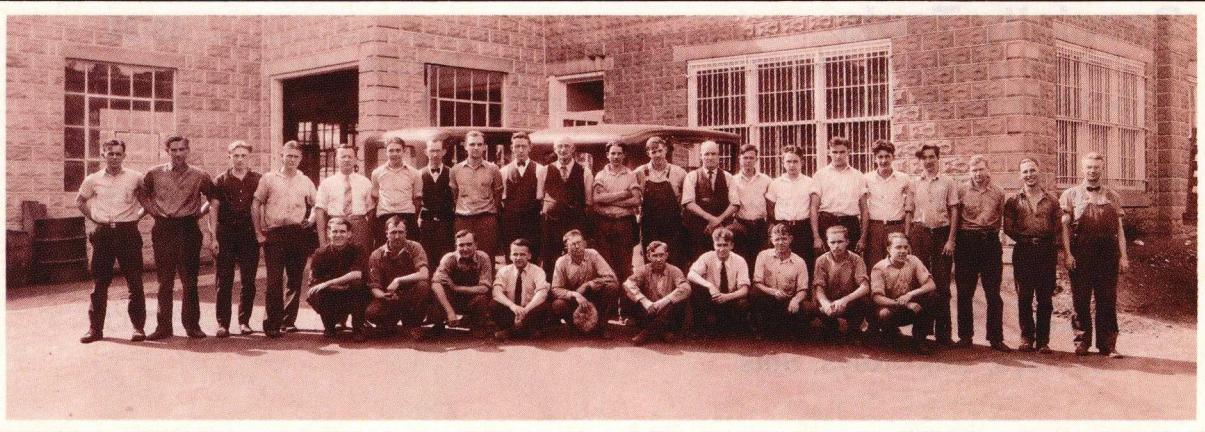
The growth of K-D Tools from a small repair shop to the largest automotive specialty tool manufacturer in the country today is a story as American as the automobile itself.

It began in the Spring of 1919, when a growing number of automotive support industries were emerging from their infancy. From a single invention, a tradition of innovation was born.

## The First K-D Tool

Working in a dimly lit repair garage in Lancaster, Pennsylvania, a mechanic named Harry W. Kulp invented a Valve Spring Lifter for removing the valves of the Model-T Ford. Kulp formed a partnership with Martin C. Dellinger, the son of a local machine-shop owner, and started the K-D Manufacturing Company in a two-car garage. In the first year, Kulp and Dellinger made and sold 10,000 "Kaydee Valve Spring Lifters."

**S**ince 1919, quality has been K-D's hallmark.



K-D Tools employees, 1929.



## An American Success Story Comes Of Age

Over the next decade, K-D developed and produced Valve Spring Lifters and Compressors for many different engines. In the 1930's, K-D branched out into other types of specialty tools, and today produces and distributes over 1,000 different tools for a broad spectrum of vehicle repair needs: tools for engine and transmission repair; brake and wheel service; automotive cooling, lubrication, electrical and air conditioning system service; gauges and equipment for auto inspection programs; and a host of other applications.

**W**

*ith over 1,000 specialty tools, K-D leads the way into the 21st Century.*



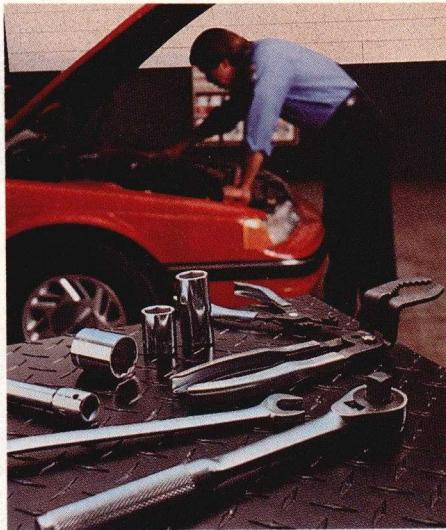
## Meeting The Needs Of Today's Automobile

In 1957, Kulp and Dellinger sold their interest in the business to a Lancaster family who, in 1981, merged K-D into Easco Hand Tools, Inc. This combined America's largest automotive specialty tool producer with one of the world's largest manufacturers of sockets and wrenches and other professional-quality, general-purpose hand tools. In 1990, K-D Tools became an operating unit of Danaher Tool Group, one of the largest domestic producers and distributors of mechanic's hand tools.

Today K-D Tools are produced in several factories with a central distribution center in Baltimore, Maryland. K-D Tools are distributed around the world and have a well-earned reputation for performance and durability among professional mechanics and quality-minded do-it-yourselfers who want to do their job like a professional.

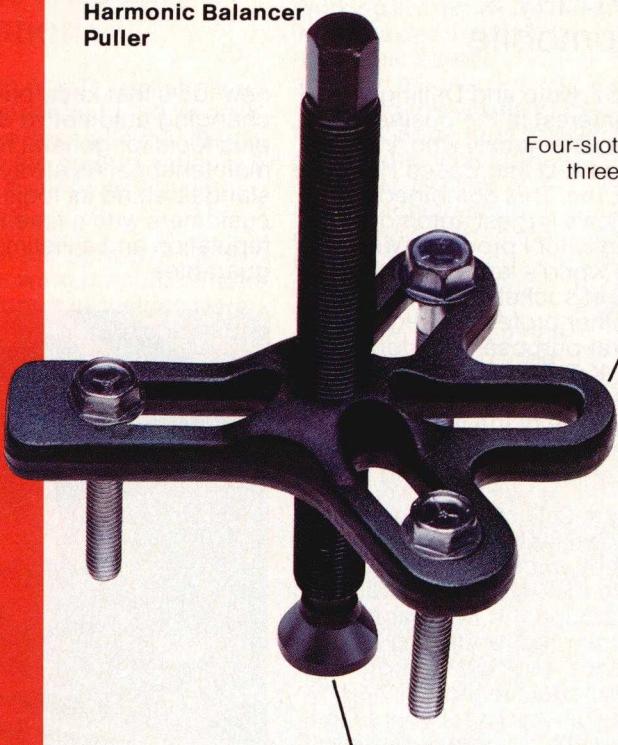
K-D has come a long way from the small repair shop in 1919, but the founders' goals have not changed: K-D exists to design, develop and produce high-quality tools for specialized automotive service needs that "make tough jobs easy." K-D is committed to constantly introducing

new tools that keep pace with changing automotive designs plus tools for general repair and maintenance. As always, K-D stands behind its tools and its customers with a time-honored reputation and a lifetime product guarantee.



**K-D Tools®**  
Make Tough Jobs Easy



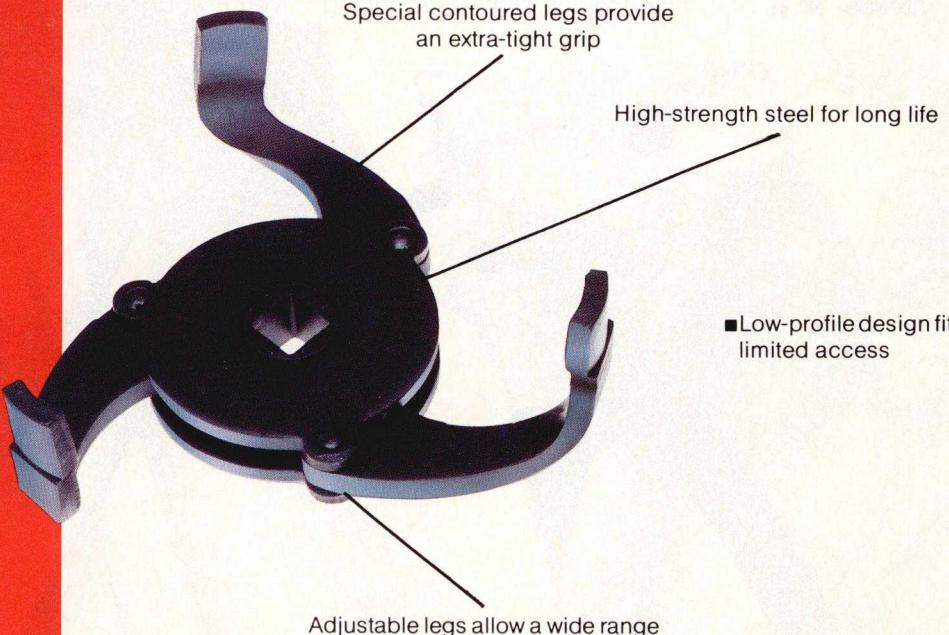
**KD 2286  
Harmonic Balancer  
Puller**

Four-slotted yoke allows two or three hole applications

■Plated and blackened for maximum corrosion resistance

■Includes a full assortment of screws for a wide variety of applications

Swivel-foot center screw provides positive grip to prevent shaft-end damage

**KD 3288  
Three-Jaw  
Filter Wrench**

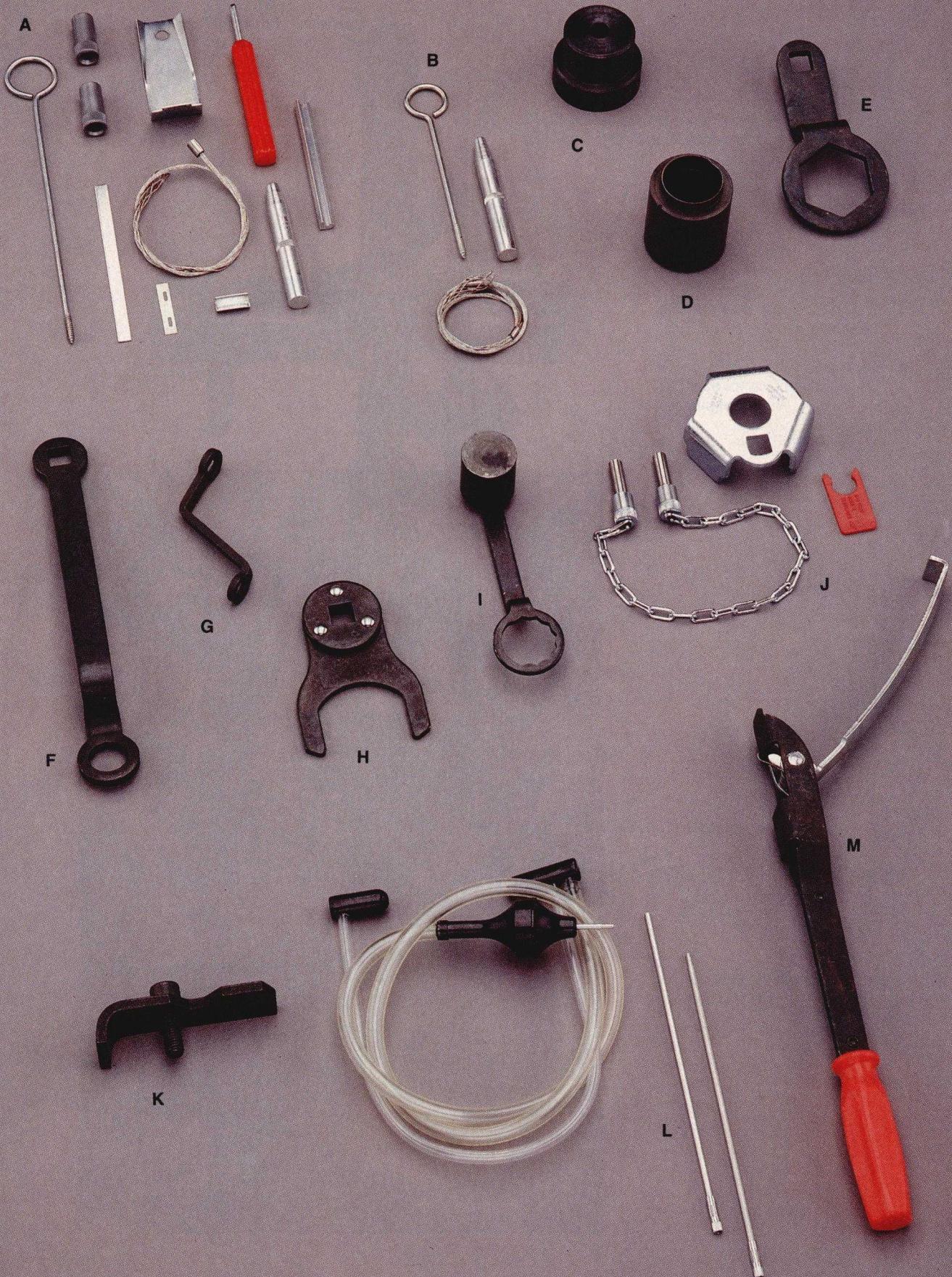
Special contoured legs provide an extra-tight grip

High-strength steel for long life

■Low-profile design fits in areas of limited access

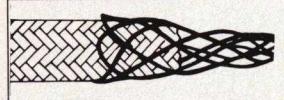
Adjustable legs allow a wide range of use from 2-1/2" to 3-3/4"





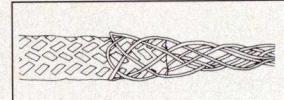
### A. 492 Oil Seal Remover and Installer

Removes and installs upper rear main oil seals with engine and crankshaft in place. Works on both wick and neoprene type seals. "Chinese Finger" type grip won't slip from seal during installation. Set includes wick seal remover, installer, guide funnels, pusher, offset trimmer, and neoprene seal punches.



### B. 2033 Oil Seal Remover and Installer

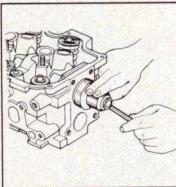
"Chinese Finger" and special screw make installation and removal of upper rear main oil seals simple. Works on wick or neoprene type seals. No need to remove engine or crankshaft.



### C. 3314 Ford Camshaft Seal Installer 1.6L, 1.9L Engine

Used to install camshaft seals on Ford 1.6L and 1.9L engines found in Escort/Lynx. Provides proper method of seal replacement. Tool can be used while engine is in vehicle.

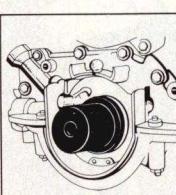
**Caution:** Wear eye protection. For intended use only.



### D. 3257 Seal Installer

Can be used to replace a variety of seals. Use on Ford Escort/Lynx 1.6L and 1.9L engines, Chrysler 2.2L and 2.5L crankshaft, camshaft and balance shaft seals, plus VW 1.8L engine camshaft, crankshaft, and intermediate shaft seals.

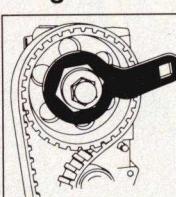
**Caution:** Wear safety goggles. For intended use only.



### E. 3254 Camshaft Sprocket Holding Tool

Specially designed to hold the camshaft sprocket while removing and replacing the camshaft bolt and also while checking the timing belt tension. Applications include: Ford Escort/Lynx 1.6L and 1.9L engines from 1985 to current. Use with  $\frac{1}{2}$ " square drive tool. Refer to Ford factory service manual for proper procedure and torque specifications.

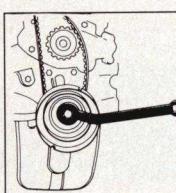
**Caution:** Wear safety goggles.



### F. 3255 Crankshaft Hub Bolt Wrench

Use this 19mm wrench to easily remove and install all types of crankshaft pulleys used on Ford Escort/Lynx 1.6L and 1.9L engines. Allows for in-vehicle replacement of timing belts. Use with  $\frac{1}{2}$ " square drive tool. Refer to Ford factory service manual for proper procedure and torque specifications.

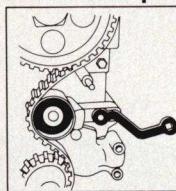
**Caution:** Wear safety goggles. For intended use only.



### G. 3256 Belt Tension Torque Wrench Adapter

Combines 2 factory tools in one, allows for the adjustment of 10mm timing belt tensioner bolts to precise factory specifications. Applications include Ford Escort/Lynx 1.6L and 1.9L engines. Use with  $\frac{3}{8}$ " square drive torque wrench. Refer to Ford factory service manual for proper procedure and torque specifications.

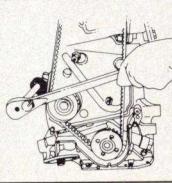
**Caution:** Wear eye protection. For intended use only. Do not use with engine running.



### H. 3283 GM Cam Drive Belt Tension Wrench

Use to adjust timing belt tension on GM 1.8L and 2.0L engines. Use with  $\frac{1}{2}$ " square drive tool. Refer to factory service manual for proper procedure and specification.

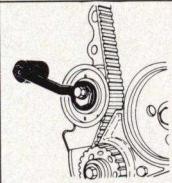
**Caution:** Wear eye protection. Do not use with engine running.



### I. 3282 Chrysler Timing Belt Tension Tool

Use to quickly and accurately adjust timing belt tension to manufacturers specifications on Chrysler 2.2L and 2.5L engines. Weight can be reversed to either side allowing use in confined areas.

**Caution:** Wear eye protection. For intended use only. Do not use with engine running.



### J. 3323 GM 2.3L Quad Four Timing Chain Set

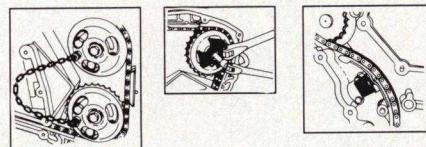
Consists of part numbers 3318, 3319 and 3320 - the three tools most needed when installing the timing chain and performing valve work on 2.3L GM Quad Four engines.

Replacement parts available:

3318 Quad Four Engine 2.3L, L4 Aligning Pins

3319 Quad Four Engine 2.3L, L4 Cam Sprocket Wrench

3320 Quad Four Engine 2.3L, L4 Tensioner Spacer



### K. 3199 GM 2.8L V-6 Timing Cover Clamp

Use to hold timing cover in place while replacing water pump. Tool will work on most late model GM 2.8L V-6 engines in 1980-1984 X-Body, 1982-1986 A-Body, and 1985-1986 F-Body. Cover clamp can also be used on GM S-10/S-15 light trucks with carburetor or throttle body injection.

### L. 835 Mechanic's Stethoscope

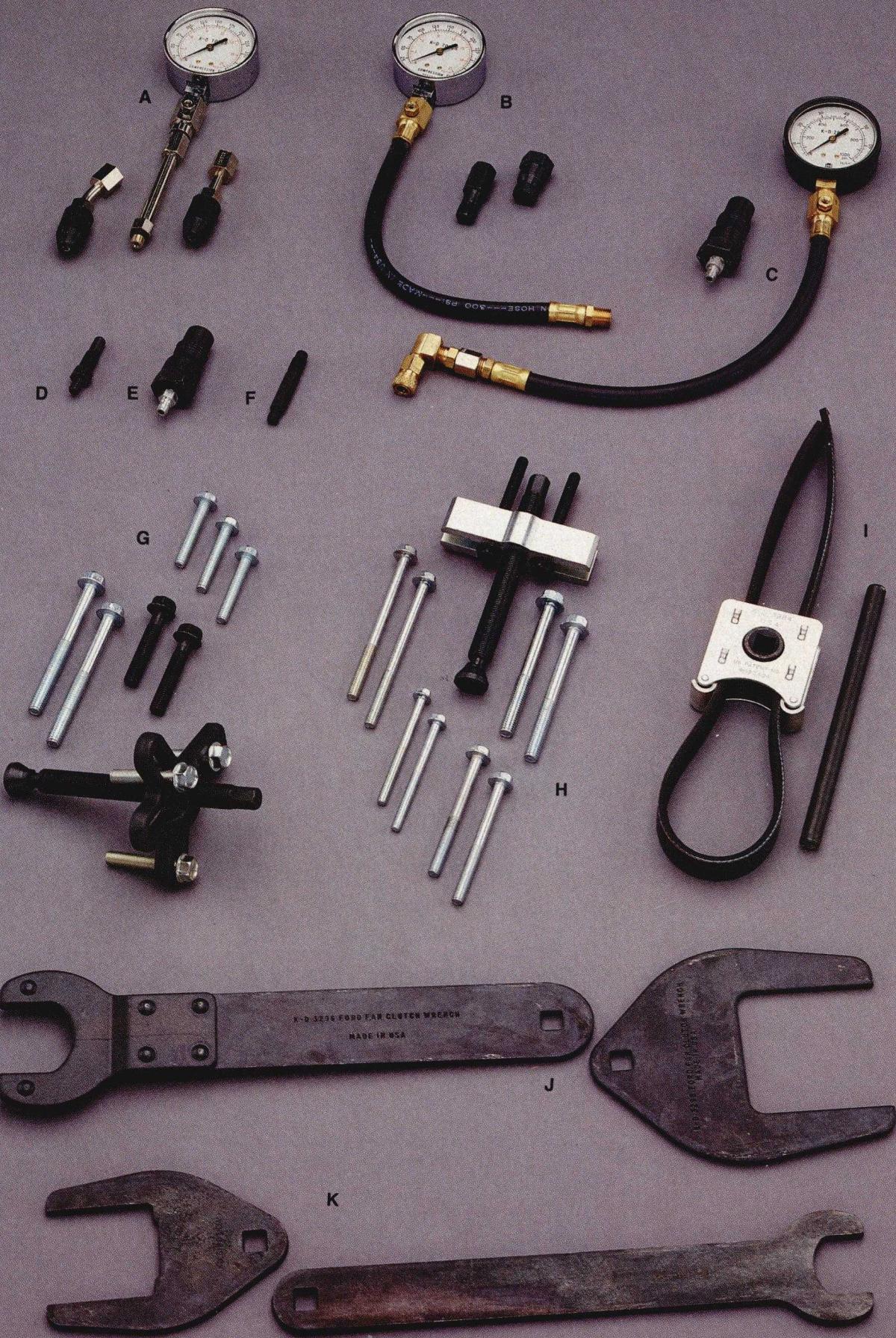
Locates source of engine noise quickly. Listen for trouble by tracing sound of flowing water, oil, gas, or steam. Identify piston slap, worn gears, faulty valves, water pump failure, damaged gaskets and defective bearings. Handle is shock-resistant. Disassembles for storage.

**Caution:** Keep away from moving/rotating and electrical components.



### M. 2270 Flywheel Turner

Hook tool into flywheel teeth to rotate crankshaft. Use when working on clutches, transmissions, installing rings, or other jobs that require the crankshaft to be in a specific position. Spring tension aids tool engagement on the flywheel.

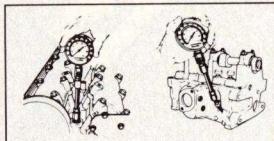


### A. 3305 Universal Compression Tester Kit

Kit consists of a gauge assembly, an extension, a straight adapter with rubber cone and a 45° adapter with rubber cone. The versatility of this kit will provide a quick method to obtain cylinder compression pressure on engines with deep, recessed spark plugs and difficult access. Special air hold valve for ease in resetting the gauge. Gauge is graduated from 10 to 300 psi (0-21 Kg/cm<sup>2</sup>). Gauge assembly includes pressure relief valve. **Caution: Wear eye protection. Do not use with engine running. For intended use only.**

Replacement parts available:

- 3306 Gauge Assembly
- 3307 Straight Adapter
- 3308 30° Adapter
- 3309 Extension
- 3306-71 O-Ring



### B. 2428 Compression Tester

Checks cylinder compression from 0 to 300 psi (0-21 Kg/cm<sup>2</sup>). Adapters fit 14mm and 18mm spark plug holes. Special air hold valve for easy resetting of gauge. 16" rubber hose. Serviceable product.

Replacement part available:

- 2428-75 Gauge

### C. 2826 Diesel Compression Gauge

Tests diesel engine cylinder compression on cars and light trucks. Records pressure from 0-1000 psi (0-70 bars). Features pressure release valve, quick coupler, swivel end and 16½" hose. Use in conjunction with adapters shown below.

Adapters for 2826 Diesel Compression Gauge:

- 2827, 2828, and 3248.

### D. 2827 GM and Ford Adapter

Fits glow plug port on GM 4.3L V-6, 4.3L and 5.7L V-8, and Ford 6.9L V-8.

**Caution: When using 2827 be sure that the threads are at least 75% engaged.**

### E. 2828 Volkswagen Adapter

Fits fuel injector port on Volkswagen cars and trucks, Volvo and Audi cars.

### F. 3248 General Motors 6.2L Adapter

Fits glow plug ports on GM 6.2 liter V-8 engines.

**Caution: Wear eye protection. Do not use with engine running. For intended use only.**

### G. 2286 Harmonic Balancer Puller

Removes balancers, pulleys, and gears with tapped holes. Floating swivel prevents damage to the shaft end. Four slots in yoke allow for two or three hole applications. Bolt tool to balancer with center screw on end of crankshaft. Tighten while tapping on screw head to remove balancer. Includes ¾"-24 UNF, 5/16"-18 UNC, ¾"-16 UNC and 10mm screws for most American and imported cars.

Replacement parts available:

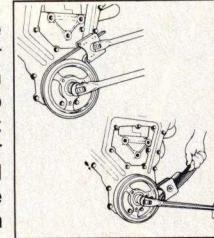
- 2286-75 Yoke and Screw Swivel
- 2286-76 Center Screw
- 2286-77 Screw Assortment

### H. 2291 Steering Wheel Puller (Crankshaft Pulley Puller)

Pulls steering wheels on most U.S. and imported cars. Floating swivel on center screw prevents damage to steering column. Five sets of side bolts included: ¾"-16 UNC, 5/16"-18 UNC, 5/16"-24 UNF, ¼"-28 UNF, 8mm x 1.25. Will also remove crankshaft pulleys on Chrysler 2.2L and 2.5L engines.

### I. 3284 Uni-Strap®

Designed to allow the crankshaft, camshaft and other such pulleys to be rotated or held while removing or installing the fastener that holds them in place. This tool can also be used to hold or position other objects such as: alternators, power steering pumps, air conditioner compressors, mufflers, oil filters found on large trucks. It has more functions than a standard strap or chain wrench and will not damage components. Use with ½" square drive tool or extension handle included. Will fit where most strap and chain wrenches won't. Patented.



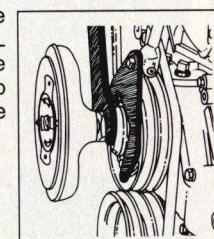
**Caution: Wear safety goggles. Do not use with power tools.**

Replacement part available:

- 3284-80 Replacement strap

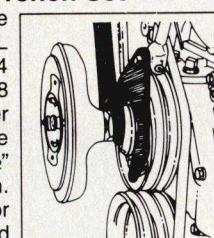
### J. 3296 Ford Fan Clutch Wrench Set, 6.9L and 7.3L

Use to remove and replace the thermostatic fan assembly on Ford 6.9L and 7.3L engines. Use with ½" square drive tools and torque wrench. Refer to Ford factory manual for torque specifications and thread direction.



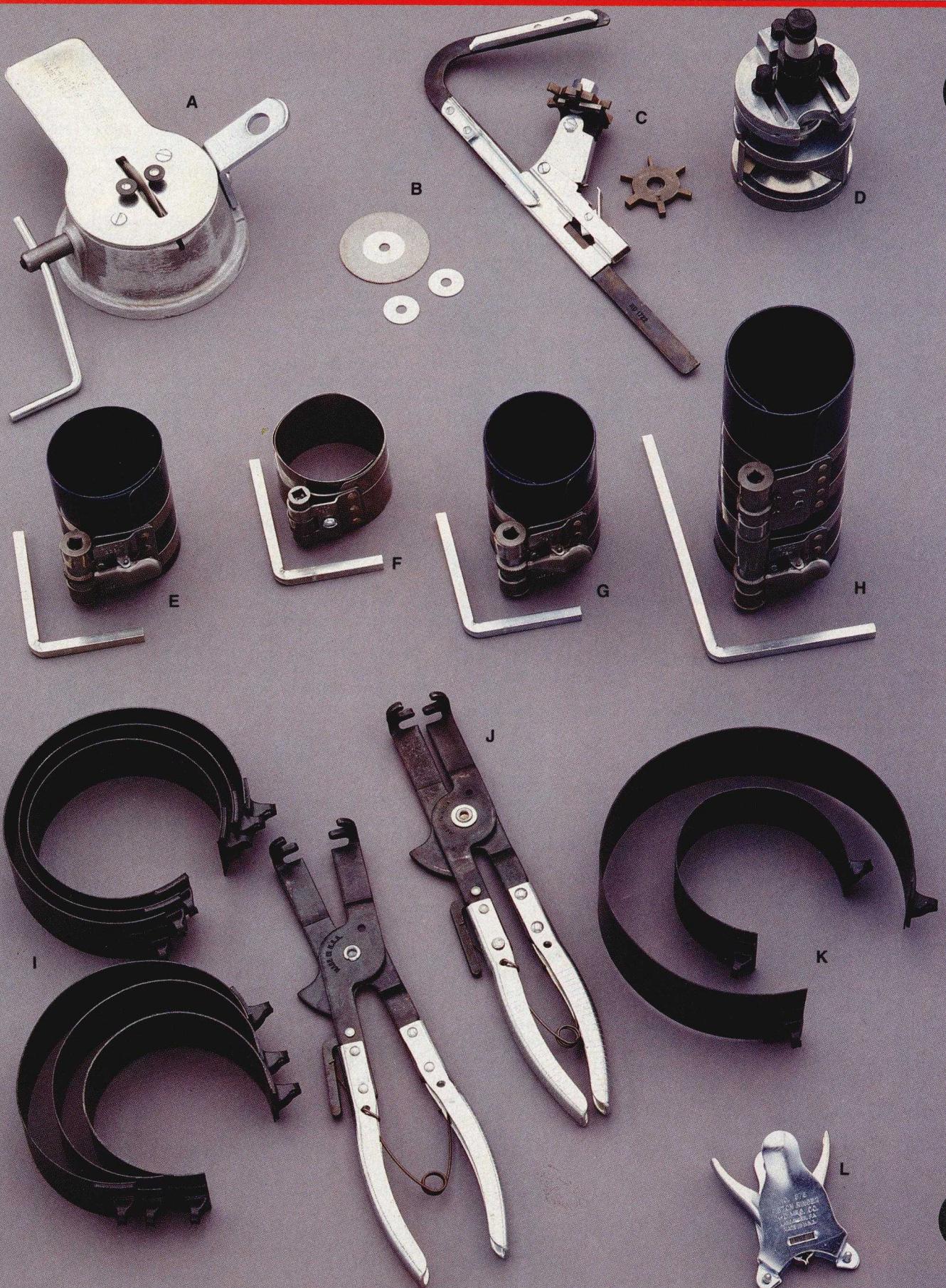
### K. 3136 Ford Fan Clutch Wrench Set

Use to remove and replace the thermostatic fan assembly on Ford 4.9L E and F series truck engines 1984 through 1987, Ford 4.6L Modular V-8 engines, the 2.8L Bronco II and Ranger engines 1984 through 1987, and the 1988 3.0L Aerostar engine. Use with ½" square drive tools and torque wrench. Refer to Ford factory service manual for torque specifications and thread direction.



Replacement parts available:

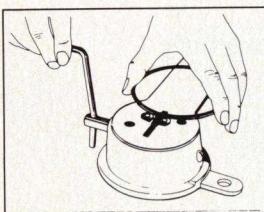
- 3136-76 36mm Long Wrench
- 3136-77 58mm Short Wrench



### A. 870 Piston Ring Filer

File piston rings with this portable rotary filer. Use to accurately size any make or diameter ring. Includes extra hard fine grit carbide coated cutter file.

**Caution:** Wear safety goggles.



### B. 872 Carbide Coated Cutter File

Use this replacement file with 870 Piston Ring Filer to accurately cut piston rings. Cutting face is coated with extra hard carbide for long life. Use with hand crank filer only.

**Caution:** Wear safety goggles.

### C. 1722 Piston Ring Groove Cleaner

Effectively removes carbon from ring grooves on pistons from 2" to 5" (51mm to 127mm). The two six-bladed cutters cover all major piston ring grooves, SAE and metric. Cutters rotate to any selected size, lock in place with hold-down nut.

#### Blade 1 Sizes

1/16"	2.00mm
5/64"	2.50mm
3/32"	3.00mm
1/8"	4.00mm
5/32"	4.50mm
3/16"	5.00mm

#### Blade 2 Sizes

Replacement part available:

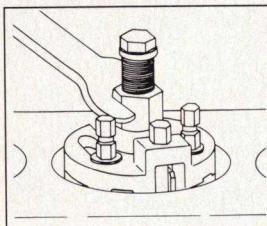
1722-71 Cutter Blade Kit (includes both SAE and metric)

### D. 2389 Engine Cylinder Ridge Reamer

Removes ridges from top of cylinders. Works on engine cylinders with bore diameters 3" to 5" (77mm to 127mm). Tungsten carbide cutters and fine thread feed-up to ensure smooth cutting action. Unique design allows for change from one cylinder to another without readjusting.

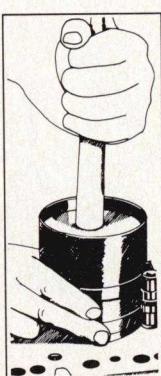
Replacement part available:

3289-78 Cutter Blade



### E. 2284 Heavy-Duty Piston Ring Compressor

Use to install pistons 2 1/8" to 5" (54mm to 127mm) in diameter. Positive lock action provides positive compression and fingertip release. Slip tool over piston and tighten with L-shaped wrench to compress piston ring into piston groove. Insert piston into cylinder and tap with hammer handle to install. Enlarged crimped edge prevents compressor from entering cylinder.



### F. 1720 Piston Ring Compressor

Use to install pistons 2 1/8" to 5" (54mm to 127mm) in diameter. Dependable friction-type brake holds rings in compression. Beaded along lower edge to prevent compressor from entering the cylinder. For use on cars, light trucks and small engines.

### G. 1723 Piston Ring Compressor

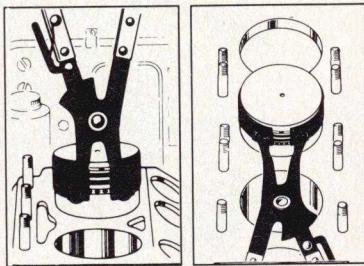
Use to install pistons 3 1/2" to 6 1/2" in diameter. Positive lock action provides positive compression and fingertip release. Heavy spring steel compresses the stiffest rings evenly. Beaded along the lower edge to prevent compressor from entering cylinder. For trucks and tractors.

### H. 1724 Diesel Ring Compressor

Used to install pistons 3 1/2" to 7" (89mm to 178mm) in diameter. Compresses diesel upper and lower rings. This 6 1/2" high positive lock compressor has four tension bands. Bands are spring steel and beaded along lower edge to prevent compressor from entering cylinder. For trucks and tractors.

### I. 850 Piston Ring Compressor Set

Installs pistons from 2 7/8" to 4 3/8" (73mm to 111mm). Includes pliers and six bands. Pliers can be used parallel or perpendicular to the cylinder block. Fine-tooth ratcheting lock allows you to compress bands in small increments. Place band around piston, covering rings. Hook pliers into band and squeeze. With band tightly around piston, insert piston into cylinder and tap lightly with hammer handle to install. Includes bands 1119, 1120, 1121, 1122, 1123 and 1124. Additional bands available.



### J. 1114 Piston Ring Compressor Pliers

Use these pliers with any of the following bands to install pistons from 2 5/8" to 5 7/8" (67mm to 149mm) in diameter. Self-locking ratchet allows you to compress rings in small increments. Pliers can be used parallel or perpendicular to the cylinder block on most bands shown below.

### K. Piston Ring Compressor Bands

Use these bands with 1114 pliers to compress piston rings from 2 5/8" to 5 7/8" in diameter. The 1114 pliers can be used parallel or perpendicular to the cylinder block on these bands.

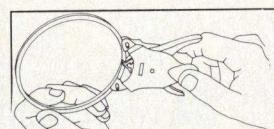
Item No.	Description
1118	2 5/8" - 2 7/8" 67mm to 73mm
1119	2 7/8" - 3 1/8" 73mm to 79mm
1120	3 1/8" - 3 3/8" 79mm to 85mm
1121	3 3/8" - 3 5/8" 85mm to 92mm
1122	3 5/8" - 3 7/8" 92mm to 98mm
1123	3 7/8" - 4 1/8" 98mm to 104mm
1124	4 1/8" - 4 3/8" 104mm to 111mm
1125	4 3/8" - 4 5/8" 111mm to 117mm
1126	4 5/8" - 4 7/8" 117mm to 123mm
1127	4 7/8" - 5 1/8" 123mm to 130mm
1128	5 1/8" - 5 3/8" 130mm to 136mm
1129	5 3/8" - 5 5/8" 136mm to 142mm
1130	5 5/8" - 5 7/8" 142mm to 149mm

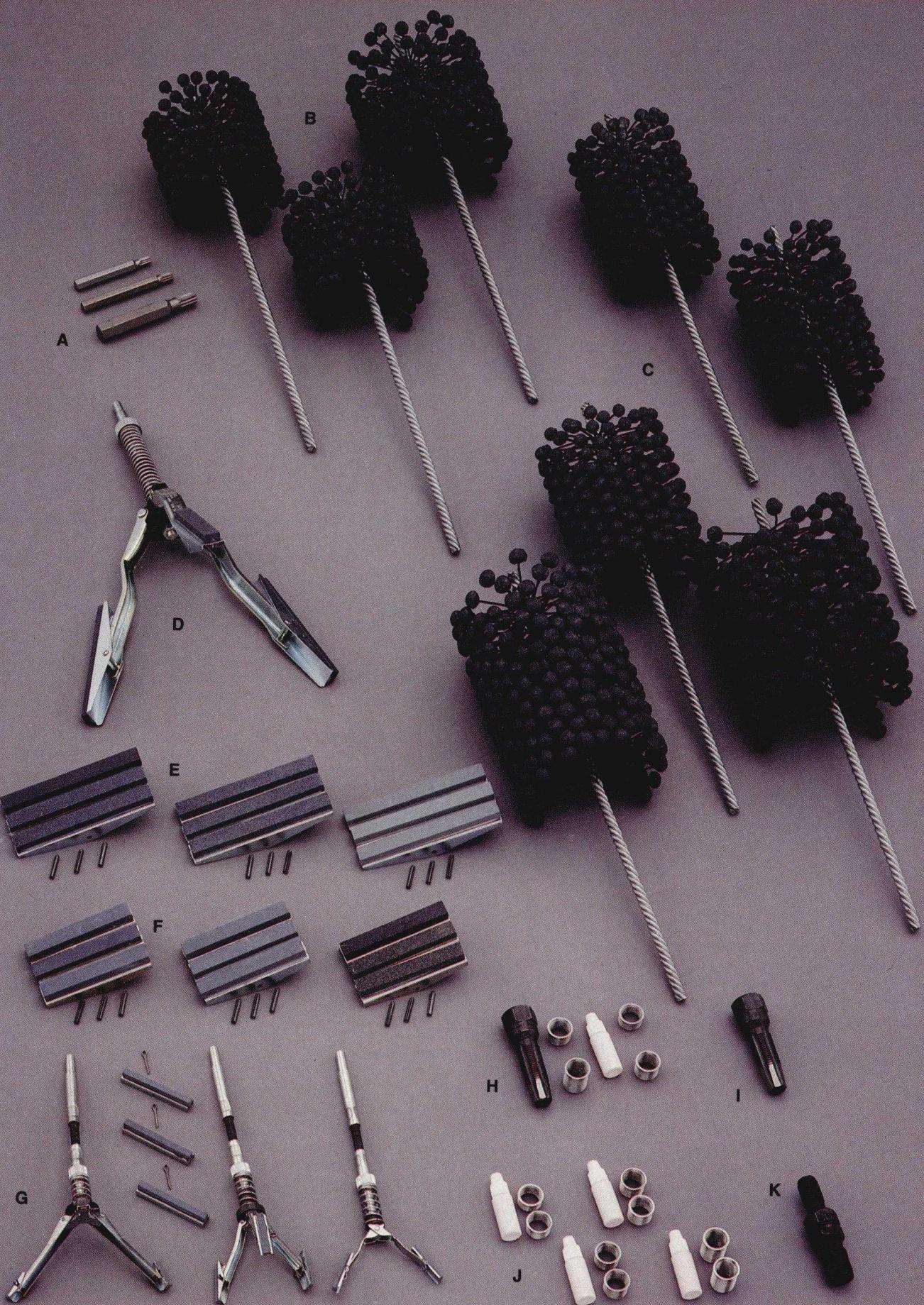
#### Narrow bands:

1131	3 3/8" - 3 5/8" 85mm to 92mm
1132	2 7/8" - 3 1/4" 75mm to 83mm

### L. 875 Piston Ringer

Removes and installs piston rings up to 4" (101mm) in diameter. Use tool to grip ring and expand to fit over piston. Pocket-sized tool is light, strong and dependable.

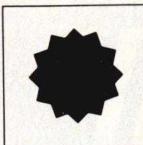




### A. Serrated Wrenches

Install and remove 12 point (triple square) metric socket head screws with these tools. Made from heat-treated alloy steel. Turn with socket or wrench.

Item No.	Description
2302	6mm
2304	8mm
2305	10mm
2306	12mm



### B. Standard Duty Engine Cylinder Flex-Hones®

Hone engine cylinders 3 1/4" to 4 1/8" (83mm to 105mm) in diameter. Flex-Hones® produce a plateaued finish for fast ring seating and better oil retention for longer engine life. Hone life in excess of 1,000 cylinders. No set-up is required. Use variable speed 3/8" electric hand drill. Use by moving the Flex-Hone® up and down in cylinder until desired results are obtained.

**Caution: Wear safety goggles.**

Item No.	Size	Recommended Min. Working Diameter	Grit
2486	3 1/2" (89mm)	3 1/4" (83mm)	120
2487	3 3/4" (95mm)	3 1/2" (89mm)	120
2488	4 1/8" (105mm)	3 3/4" (95mm)	120

Flex-Hones® are available in USA and Canada only. Flex-Hones® are manufactured by Brush Research Mfg. Co., U.S. Patent No. 3384915-3971139. Foreign patents issued or pending.

### C. Heavy Duty Engine Cylinder Flex-Hones®

Hone engine cylinders 2 3/4" to 4 1/2" (70mm to 114mm) in diameter. Heavy-duty Flex-Hones® deliver the same plateaued finish as standard Flex-Hones®, but are longer lasting.

**Caution: Wear safety goggles.**

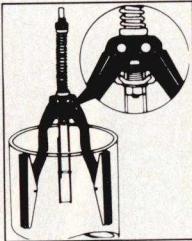
Item No.	Size	Recommended Min. Working Diameter	Grit
2489	3" (76mm)	2 3/4" (70mm)	120
2490	3 1/4" (82mm)	3" (76mm)	120
2491	3 1/2" (89mm)	3 1/4" (82mm)	120
2492	4" (101mm)	3 1/2" (89mm)	120
2493	4 1/2" (114mm)	4" (101mm)	120

Flex-Hones® are available in USA and Canada only. Flex-Hones® are manufactured by Brush Research Mfg. Co. U.S. Patent No. 3384915-3971139. Foreign patents issued or pending.

### D. 2833 Engine Cylinder Hone

Hone and remove glaze from engine cylinders from 2" to 7" (51mm to 177mm) in diameter. Adjust spring tension for positive cutting action. Set diameter with spread limiter. Includes medium, #240 grit stones.

**Caution: Wear safety goggles.**



### E. 4" Replacement Stones

For 2833 Engine Cylinder Hone.

Item No.	Description
2834	Coarse Grit. For rough honing. #100 grit.
2835	Medium Grit. For general purpose honing and glaze breaking. #240 grit.
2836	Fine Grit. For hydraulic cylinders. #400 Grit.

### F. 3" Replacement Stones

For 2833 Engine Cylinder Hone.

Item No.	Description
3156	Fine Grit. For light duty and finishing honing, #400 grit.
3157	Medium Grit. For general purpose honing and glaze breaking. #240 grit.
3158	Coarse Grit. For rough honing. #100 grit.

### G. 3029 Economy Brake and Engine Cylinder Hone Set

Multi-purpose hone set includes three complete hones and one set of 2" stones. Set includes:

Complete hone for brake, master and wheel cylinders 3/4" through 2 1/2" capacity, with 1 1/8" medium grit stones.

Complete hone for small car brake wheel cylinders 1/2" through 1 3/4" capacity, with two 1 1/8" medium grit stones.

Complete hone for disc brake caliper honing 1 1/4" through 3 1/2" capacity, with 3/4" medium grit stones. Also ideal for lawn and garden small engine cylinder honing when used with three 2" medium grit stones included.

**Caution: Wear safety goggles.**

Replacement part available:

3029-75 Three 2" Cylinder Hone Stones

### H. 2125 14mm Cylinder Head Rethreader Kit

Repairs damaged 14mm spark plug threads. Open spark plug hole with reamer/tap. Screw insert onto spark plug. Use spark plug socket to install spark plug and insert. Remove spark plug and check that insert is properly seated. Set includes 1 each of 4 inserts (3/8", 7/16", 1/2", and 3/4" reach) and thread locking compound. Tap is designed for aluminum heads only.

**Caution: Wear safety goggles.**



### I. 2123 14mm Spark Plug Insert Reamer/Tap

Opens threads in damaged spark plug holes. Prior to using spark plug thread, use inserts 2126 through 2129 to repair 14mm spark plug holes on aluminum heads only.

**Caution: Wear safety goggles.**

### J. 14mm Spark Plug Thread Inserts

These inserts replace damaged 14mm spark plug threads on aluminum head engines only. Use with 2123 reamer/tap to repair holes. Includes thread locking compound and one pair of inserts.

**Caution: Wear safety goggles.**

Item No.	Description
2126	3/8" long
2127	7/16" long
2128	1/2" long
2129	3/4" long

### K. 730 14mm and 18mm Spark Plug Opening Thread Chaser

Cleans and restores 14mm and 18mm spark plug threads. Drive with 13/16" socket. Rubber ring eliminates slipping. Services most cars.



### A. 2569 Oil Pressure and Stop Light Switch Socket

Removes oil pressure sending unit on most engines.  $\frac{3}{8}$ " drive socket has 1" and  $1\frac{1}{16}$ " hex opening plus recess to accommodate switch. Also fits some brake light switches. Can be turned with  $1\frac{5}{16}$ " wrench.

**Caution:** Wear safety goggles. Do not use with engine running. Do not use with power tools. For intended use only.

### B. 3113 Small Oil Pressure Sending Unit Socket

Specially designed socket easily removes and installs 1" hex-shaped oil pressure sending units used on small cars. 2" long socket made of alloy steel for use with  $\frac{3}{8}$ " square drive tools. Chrome-plated.

**Caution:** Wear safety goggles. Do not use with engine running. Do not use with power tools. For intended use only.

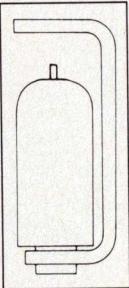
### C. 3272 Oil Pressure Sending Unit Socket

Use to remove and replace oil pressure sending units on 1987 to current GM engines including 2.0L, 2.5L, 2.8L, and 3.0L used in Chevy, Buick, Olds, Pontiac, and Cadillac. Hex opening is  $1\frac{3}{16}$ ". Turn with  $\frac{1}{2}$ " square drive tools or  $1\frac{5}{16}$ " wrench.

**Caution:** Wear safety goggles. Do not use with engine running. Do not use with power tools. For intended use only.

### D. Nissan Oil Pressure Sending Unit Wrench

Easily remove and replace oil pressure sending units on Nissan vehicles without removing the manifold. Use wrench with  $\frac{3}{8}$ " square drive tools. Works on all oil pressure sending units on vehicles equipped with an oil pressure gauge.



Item No.	Description
3178	Size: 14mm
3179	Size: 17mm

**Caution:** Wear safety goggles. Do not use with engine running. Do not use with power tools.

### E. 3289 Oil Pressure Check Kit

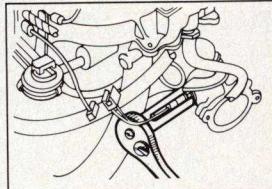
Tests engine oil pressure at the oil filter on most passenger cars and light trucks. Five different adapters are included for both domestic and imported engines. Gauge calibrated 0-100 psi.

### F. 3343 Engine /Automatic Transmission Oil Pressure Check Kit

Checks oil pressure in engines and automatic transmissions. Can be used on all domestic cars and light trucks, as well as most import cars and light trucks. Kit includes:  $2\frac{1}{2}$ " gauge ranging from 0-300PSI, 6' neoprene (oil proof) hose, brass adapters for SAE threads, and aluminum adapters for metric threads.

### G. 3117 Oxygen Sensor Socket

Specially designed socket easily removes and installs oxygen sensors on vehicles with computerized engine management systems. Socket incorporates slot for sensor wire clearance. Socket made of alloy steel. Use with  $\frac{1}{2}$ " square drive tools or  $\frac{7}{8}$ " wrench. Chrome-plated.



### H. 3259 Universal Vacuum PVS, TVS Valve and Oxygen Sensor Socket

Specially designed socket for removal and replacement of vacuum switches with a  $\frac{7}{8}$ " hex currently found on Ford, GM, Chrysler, and some imported vehicles. Tool can also be used to remove and replace some oxygen sensors. Use with  $\frac{1}{2}$ " square drive tool or  $\frac{7}{8}$ " wrench.

**Caution:** Wear safety goggles. Do not use with engine running. Do not use with power tools. For intended use only.

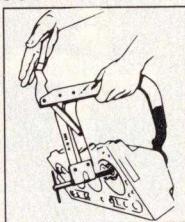


### A. 383 Valve Spring Compressor

Services overhead valve engines. Handle on outside of tool makes it easy to use. Throat depth 7½" and jaw opening 2¾" to 5⅛". Fits most passenger car and light truck engines. Will work on small L-head engines with manifolds removed. Includes K-D 32 offset jaws.

Replacement parts available:

- |    |               |
|----|---------------|
| 32 | Offset Jaws   |
| 35 | Straight Jaws |

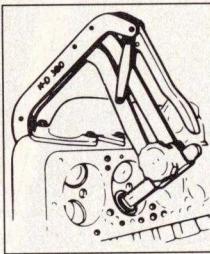


### B. 380 Valve Spring Compressor

Compresses valve springs on overhead valve and L-head engines on cars, trucks and tractors. Throat depth 9¾" and jaw opening 2¾" to 7¾" fits larger engine sizes. Jaws and plunger bar easily adjusted. Plunger bar seats on both flat and cup shaped valve heads. Includes K-D 32 offset and K-D 35 straight jaws.

Replacement parts available:

- |    |              |
|----|--------------|
| 32 | Offset Jaw   |
| 35 | Straight Jaw |

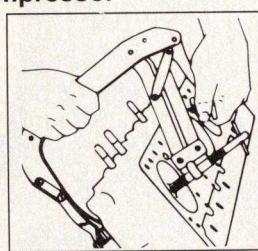


Use these jaws with 380 and 383 Valve Spring Compressors. Jaws are heat treated.

### C. 385 Valve Spring Compressor

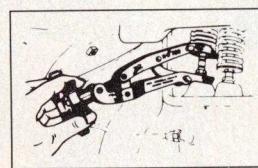
Compresses valves on small overhead valve or L-head engines. Throat depth 6¼". Jaw opening 3" to 5¾". Designed for lightweight valve springs. Works on L-heads with manifolds removed. Works on many industrial engines.

Replacement part available:  
385-75 Jaw Set



### D. 700 Valve Spring Lifter

Use this screw-type lifter to lift valve springs on deep set L-heads. Designed for use on small U.S. and imported L-head engines. Design provides clear view of valve. Tool remains at set height. Jaws are adjustable.



### E. 912 Valve Spring Compressor

Removes and replaces valve springs in GM 8-cylinder engines. Use to replace weak or broken valve springs and valve guide seals with cylinder head on engine. Remove rocker and fasten tool to stud with nut. Pull on handle to compress spring. Use with 901 or 2992 Air Hold Fittings to keep valves closed. Heavy-duty construction. 12½" long.

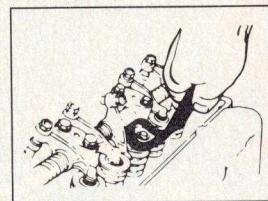
\*See caution note below.



**\*Caution: Wear safety goggles. Vehicle must be placed in park/neutral before applying air pressure, otherwise vehicle may move. Keep hands clear of fan, belts, and pulleys since slight crankshaft rotation will occur.**

### F. 915 Overhead Valve Spring Compressor

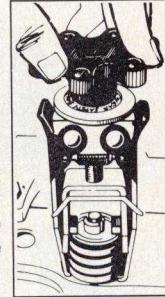
Compresses valve springs on overhead valve engines such as Ford and Oldsmobile. Tool fits under rocker arm shaft. Disconnect rocker arm and move aside. Hook tool under shaft and apply downward pressure. This compresses spring, allowing removal of keepers. Use with 901 or 2992 Air Hold Fittings to keep valve in place.



\*See caution note below.

### G. 3271 Deluxe Universal Overhead Valve Spring Compressor

Easily removes valve springs on most cars and light trucks. This tool can be used with the cylinder head on or off of the engine. Features a removable handle allowing use with a ¾" socket or wrench in confined areas. Includes an extra long leg for more applications. For best results when working on the engine, use with 901 or 2292 Air Hold Fittings to pressurize the cylinder and keep the valves in place during removal of the spring and keepers.



\*See caution note below.

Replacement parts available:

- |         |           |
|---------|-----------|
| 3271-75 | Long Leg  |
| 3271-76 | Short Leg |
| 3271-77 | Knob      |

### H. 2078 Universal Overhead Valve Spring Compressor

Removes valve springs on most cars with overhead valves without removing cylinder head. Offset jaws grip valve spring in parallel compression. Tool maintains constant length as spring is compressed. Use with 901 and 2992 Air Hold Fittings to keep valves in place.

\*See caution note below.

### I. 3087 Valve Spring Compressor

Tool compresses valve springs on most overhead valve engines including GM, Ford, Chrysler, Nissan, and Toyota. Jaws adjust to fit over spring retaining washer. An adjustable handle allows easy clearance in tight areas. GM adapter included. Use 3269 Fulcrum Rail if overhead cam is not available. Use with 901 or 2992 Air Hold Fittings to keep valves in place.

\*See caution note below.

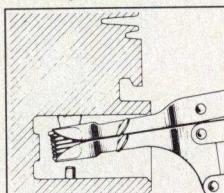
### J. 3269 Universal Fulcrum Rail

For use with 3087 or 2400 Valve Spring Compressors to compress overhead valves when a fulcrum is unavailable, whether head is on or off engine, in or out of the vehicle. Tool can be adjusted to various positions to allow use on most engines. When used with head on the engine, use 901 or 2992 Air Hold Fittings to pressurize the cylinder and keep the valves in place during removal of the spring and keepers.

\*See caution note below.

### K. 379 Small Engine Valve Compressor

Use to compress valve springs on Briggs and Stratton, Clinton, Kohler and other small engines. Remove valve cover and insert jaws around spring. Turn hand wheel to compress spring. Rear-mounted hand wheel makes operation easy.





## A. 901 Air Hold Fitting Set

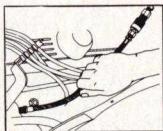
Use to apply air pressure to keep valve closed while replacing valve spring. 14mm and 18mm adapters threaded for  $\frac{1}{4}$ " NPT. Remove spark plug and screw air hold into port. Fasten air hose to fitting and apply pressure. Use with 912, 915, 2078, 3087, or 3271 Valve Spring Compressors.

**Caution:** Wear safety goggles. Vehicle must be placed in park/neutral before applying air pressure, otherwise vehicle may move. Keep hands clear of fan, belts, and pulleys since slight crankshaft rotation will occur.

## B. 2992 14mm/18mm Air Hold Extension Hose

14" long hose incorporates special 14mm and 18mm stepped fitting with "O"-ring seals for universal fit and  $\frac{1}{4}$ " NPT fitting for easy connection to air lines. Used with Valve Spring Compressors 912, 915, 2078, 2400, 3087, and 3271. Long hose ideal for reaching deep set spark plug holes.

**Caution:** Wear safety goggles. Vehicle must be placed in park/neutral before applying air pressure, otherwise vehicle may move. Keep hands clear of fan, belts, and pulleys since slight crankshaft rotation will occur.

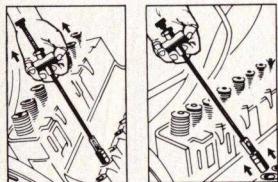


## C. 2079 Heavy-Duty Hydraulic Valve Tappet Remover

Remove most stuck hydraulic valve tappets with this slide hammer type tool. Spread jaws to clamp recessed area of tappet. Use slide hammer to remove. Adapters convert tool to a puller for baked-in valve tappets. Turn adjusting nut with  $\frac{5}{8}$ " wrench. Serviceable product.

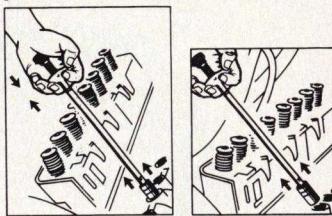
Replacement part available:

2079-82 Head Assembly



## D. 2114 Quickie Hydraulic Tappet Remover

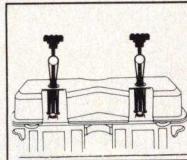
Removes valve tappets which are not stuck or baked-in. Tool can be used with most manifolds in place. Place jaws into groove on inside of tappet. Squeeze knob and T-handle and pull to remove. Patented.



## E. 3196 Rocker Arm Cover Remover

Easily removes rocker arm covers installed with form-in-place silicone gaskets on GM 2.5L 4 cylinder engines. To use, insert legs and attach to bottom of breather tube, turn knob until resistance is felt. Repeat procedure with the second tool through the other breather tube, turn knobs equally on both units until valve cover is lifted from engine.

**Caution:** Wear safety goggles.



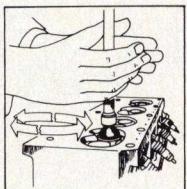
## F. Valve Grinders

Hand grind small and large flat head unslotted valves. Textured handle and thin wall suction cups make grinding easy. Place grinding compound on valve face and put in seat. Put suction cup on valve head. Turn handle between hands to grind.

**501** For smaller valves. Cup diameters  $\frac{5}{8}$ " and  $1\frac{3}{16}$ ".

**505** For most valves. Cup diameters  $1\frac{1}{8}$ " and  $1\frac{1}{4}$ ".

**506** Single ended valve grinder, fits many valve sizes. Cup diameter  $1\frac{1}{8}$ ".





### A. 2521 Fuel Pump Vacuum and Pressure Tester

Tests for fuel line pressure and vacuum leaks. Check for leaky valves, timing, fuel pump vacuum and pressure, and gas line leakage. Easy-to-read gauge with 3' hose and vacuum hose adapter fitting. Gauge measures vacuum from 0 to 28" Hg in 1" increments (0 to 700mm Hg in 50mm increments). Measures pressure from 0 to 15 psi in  $\frac{1}{2}$  psi increments (0-1 Kg/cm<sup>2</sup> in .1 Kg/cm<sup>2</sup> increments).

**Caution:** Not for use on fuel injected vehicles.

### B. 3268 Ford Fuel Tank Sending Unit Wrench

This tool will remove 4" and 5" retaining rings found on popular Ford vehicles with electric fuel pumps located in the fuel tank. Ring must be removed to service fuel pump and/or sending units.

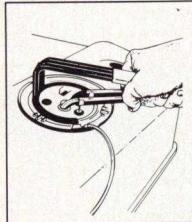
**Caution:** Wear safety goggles. For intended use only. Read instructions before use.



### C. 3194 GM Fuel Tank Sending Unit Wrench

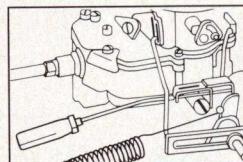
Easily removes and replaces 3.10" fuel tank retaining rings on GM vehicles with fuel pumps mounted in fuel tanks. Will work on GM F, A, J, G, B bodies, and T; 10-30 series light trucks; Astro Vans; 1.8L, 2.2L, 4.3L, 5.7L, and 6.2L diesel engine vehicles. Comfortable vinyl grip.

**Caution:** Wear safety goggles. For intended use only. Read instructions before using.



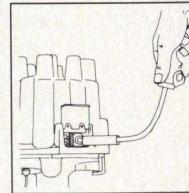
### D. 2205 Throttle Adjusting Tool

Adjusts RPM without disturbing original carburetor setting. Fasten tool to carburetor throttle and turn handle to required RPM. Can be used without removing air cleaner. Tool holds setting while you do tune-up, timing, or air conditioning service. Excellent tool for electronic diagnostic checks.



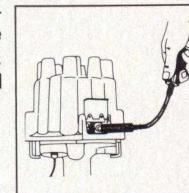
### E. 2539 Carburetor and Distributor Adjusting Tool

Adjust carburetor mixture and idle speed with screwdriver bit. Hooded end keeps screwdriver from slipping. Use  $\frac{1}{8}$ " hex bit for Delco-Remy external distributor adjustments. Fits GM V-6 and V-8 window-type distributors up to 1974. Non-kink flexible shaft lets you reach around obstructions.



### F. 2776 GM Carburetor Adjusting Tool

Easily adjusts General Motors C-4 carburetor idle mixture screws. Flexible shaft lets you reach hard-to-get-at screws. Reversible bit fits Double D and hex head screws.



### G. 2967 Hand Held Tachometer

Checks diesels, pumps, compressors, power take offs, farm and construction equipment revolution speed. Ideal where electric tachometer cannot be used. Hold rubber tip against end of rotating shaft. Read revolutions per minute directly from dial. Range 100 to 4,000 RPM (clockwise or counter-clockwise). 4 $\frac{1}{4}$ " long. 2 $\frac{3}{4}$ " diameter dial.

Replacement parts available:

2967-70 Rubber Tip - Pointed

2967-71 Rubber Tip - Flat

2967-72 12" Ext. Shaft

### H. 2964 Engine Warp and Alignment Gauge

Checks warp of head, block and manifold, and main bearing saddle alignment. Place bar gauge across block and check clearances with feeler gauges. Heavy-duty hardened and ground bar is  $\frac{3}{4}$ " in diameter, 26" long and accurate to within .002". Has hang-up hook and removable anti-roll block.

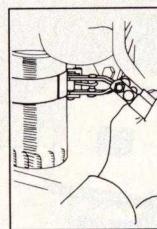
### I. 2965 Precision Straight Edge

35" long accurate straight edge checks warp of cylinder block and head. Long enough to check most diesel engines. Check clearances with feeler gauge. Enameled on all surfaces except measuring edge to protect against rust. Has hang-up hole for storage.



### A. Swivoil™ Filter Wrenches

Made of high-quality steel, 3082, 3083 and 3324 have a zinc-plated yoke and blackened band for resistance to rust and corrosion. The plastisol dipped handle will not slide off in use. Even hard-to-reach oil filters will come off easily with this swivel-handle oil filter wrench. The unique yoke and link assembly allows a good grip, but will not crush the filter. The swivel tension is adjusted easily, using the nut and bolt on the handle.

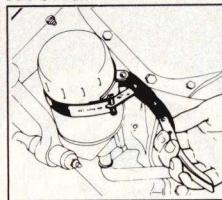


#### Item No. Description

3082	Range: 3½" to 3¾" (88.9mm to 98.4mm)
3083	Range: 2½" to 3¼" (73mm to 82.5mm)
3324	Range: 2½" to 3" (63.5mm to 76mm)

### B. 190 Universal Oil Filter Wrench

Removes oil filters 3½" to 3¾" (87mm to 95mm) in diameter. Positive grip lets you exceed normal torque requirements. Band will not puncture or crush filter.



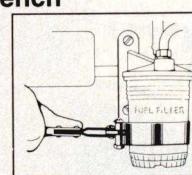
### C. 191 Oil Filter Wrench

Use to remove oil filters 3½" to 3¾" (78mm to 87mm) in diameter. Positive grip lets you exceed normal torque requirements. Band will not puncture or crush filter.



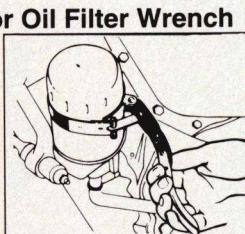
### D. 192 Fuel and Oil Filter Wrench

Removes gasoline and oil filters 2¼" to 2½" (57mm to 65mm) in diameter. Wrench prevents crushing of filter case.



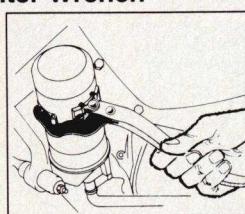
### E. 2159 Oil Filter Wrench

Removes oil filters 2½" to 3½" (71mm to 79mm) in diameter. Positive grip lets you exceed normal torque requirements. Band will not puncture or crush filter.



### G. 2187 Adjustable Oil Filter Wrench

With notched link set to one of three positions, this wrench removes oil filters from 2¾" to 3¾" (70mm to 95mm) in diameter. Wide range of sizes makes this wrench nearly universal.

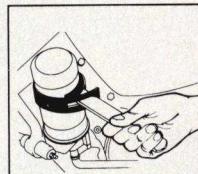


### H. 2394 Adjustable Oil Filter Wrench

Removes oil filters from 3½" to 3¾" (78mm to 95mm) in diameter with this 3-position wrench. Designed to fit many popular makes and models of cars. Plastic hand grip prevents slipping.

### I. 2546 Economy Oil Filter Wrench

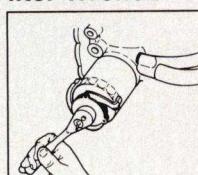
Wrench is made in the U.S.A. and offers high quality at a low price. Removes filters 3½" to 3¾" (87mm to 95mm) in diameter.



### J. 3288 Universal 3-Jaw Oil Filter Wrench

Three jaw design tightens around filter securely as wrench is turned. Removes all passenger car and light-duty truck spin-on type filters from 2½" to 3¾". Use with ¾" square drive tool.

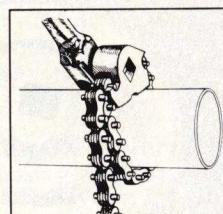
**Caution: Do not use with power tools.**



### K. 2595 Chain Wrench

Wraps around any shape item from ½" to 5" (16mm to 127mm) in effective diameter to apply torque. Turn with ½" square drive tools.

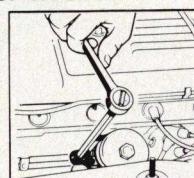
**Caution: Do not use with power tools.**



### L. 2029 Square Drive Oil Filter Wrench

Removes filters 3½" to 3¾" (87mm to 95mm) in diameter. Use in place of 190 in hard-to-reach areas. Turn filter with ¾" square drive tools. Band will not crush filter.

**Caution: Do not use with power tools.**



### M. 2380 Square Drive Oil Filter Wrench

Fits filter sizes 2⅓" to 3⅓" (71mm to 79mm) in diameter. Use in place of 2159 in hard-to-reach areas. Turn with ¾" square drive tools.

**Caution: Do not use with power tools.**

### N. 3031 Import Car Oil Filter Wrench

Specially designed for 3¼" (82.5mm) filters. Allows easy access to hard-to-reach filters. Use with a ¾" square drive tool. Range 3½" to 3¾" (74mm to 87mm).

**Caution: Do not use with power tools.**

### O. 2320 Heavy-Duty Oil Filter Wrench

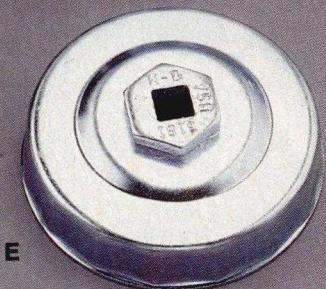
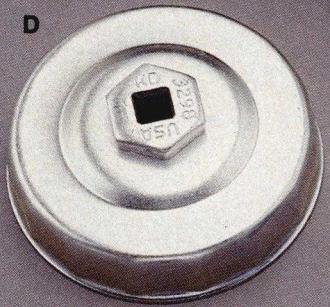
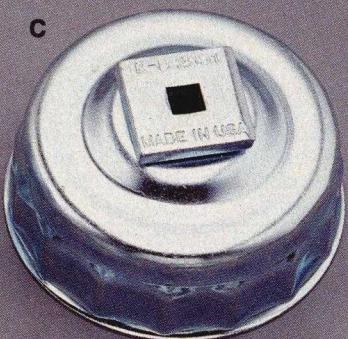
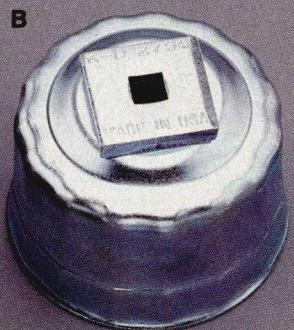
Removes truck filters from 4½" to 4½" (105mm to 118mm) in diameter. Wrench fits most Mack truck filters. Fits Ford 6.9L diesel oil and fuel filters. Designed for high torque requirements of truck filters. Use with ½" square drive tools.

**Caution: Do not use with power tools.**

### P. 2321 Heavy-Duty Oil Filter Wrench

Removes truck oil filters from 4½" to 5½" (118 to 130mm) in diameter. Designed for high torque requirements of truck filters. Use with ½" square drive tools.

**Caution: Do not use with power tools.**



### A. 2322 Heavy-Duty Oil Filter Wrench

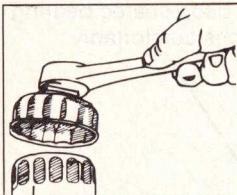
Removes truck oil filters from  $5\frac{5}{32}$ " to  $5\frac{21}{32}$ " (130mm to 143mm) in diameter. Designed for high torque requirements of truck filters. Use with  $\frac{1}{2}$ " square drive tools.

**Caution:** Do not use with power tools.

### B. 2790 3" End Cap Oil Filter Wrench

Specially designed end cap wrench removes and installs hard-to-reach 3" (76mm) oil filters with 15 flute end. Wrench fits various flute designs found on AC/Delco, Fram, Wix, STP, NAPA, Sears, Gard, Montgomery Ward, VW, Motorcraft, and other filters. Use with  $\frac{3}{8}$ " square drive tools or 1" wrench. Durable steel wrench is zinc-plated to resist rust. Be sure fluted end of filter matches wrench.

**Caution:** Do not use with power tools.



### C. 2991 3 $\frac{3}{4}$ " End Cap Oil Filter Wrench

Removes and installs 3 $\frac{3}{4}$ " (95mm) diameter filters. Designed for use with  $\frac{3}{8}$ " square drive tools or 1" wrench. Wrench is zinc-plated to resist rust. Be sure fluted end of filter matches wrench.

**Caution:** Do not use with power tools.

### D. 3298 3.25" End Cap Oil Filter Wrench

Removes 3.25" diameter filters with 15 flute ends in limited space applications. Wrench fits various filters. Designed to be used with any  $\frac{3}{8}$ " square drive tool or 1" wrench. Durable steel wrench is zinc plated to resist rust. Be sure the fluted end of the filter matches the wrench for best service.

**Caution:** Do not use with power tools.

### E. 3181 79mm End Cap Oil Filter Wrench

Specially designed end cap oil filter wrench removes and installs hard-to-reach 15 flute factory filters on all Nissan V-6 trucks and Chevy Nova; also fits some Nissan cars, Toyota and Subaru vehicles. Use with  $\frac{3}{8}$ " square drive tools or 1" wrench.

**Caution:** Do not use with power tools.

### Oil Filter Wrench Size Chart

All sizes shown are the diameter of the oil filter can.

English	190	191	192	2010	2029	2159	2161	2187	2320	2321	2322	2380	2389	2546	2790	2991	3003	3004	3031	3082	3083	3149	3181	3253	3288	3298	3324	Metric
0																										0		
2 $\frac{1}{4}$																										57mm		
2 $\frac{1}{2}$																										63.5mm		
2 $\frac{5}{16}$																										65mm		
2 $\frac{3}{8}$																										67mm		
2 $\frac{7}{16}$																										70mm		
3																										71mm		
3 $\frac{1}{16}$																										73mm		
3 $\frac{1}{8}$																										75mm		
3 $\frac{5}{16}$																										76mm		
3 $\frac{3}{16}$																										78mm		
3 $\frac{7}{16}$																										79mm		
3 $\frac{1}{4}$																										81mm		
3 $\frac{13}{16}$																										82.5mm		
3 $\frac{1}{2}$																										84mm		
3 $\frac{15}{16}$																										86mm		
3 $\frac{3}{8}$																										87mm		
3 $\frac{1}{4}$																										88.9mm		
3 $\frac{1}{2}$																										95mm		
3 $\frac{3}{4}$																										98.4mm		
3 $\frac{5}{8}$																										102mm		
4																										105mm		
4 $\frac{1}{8}$																										111mm		
4 $\frac{3}{8}$																										118mm		
4 $\frac{15}{16}$																										127mm		
5																										131mm		
5 $\frac{1}{16}$																										144mm		
5 $\frac{1}{8}$																										152mm		
6																												

### F. 3253 65.mm End Cap Oil Filter Wrench

Removes and installs 14 flute 65mm factory oil filters on late model Toyota Tercel, MR2, Celica and '88 Camry. Use with  $\frac{3}{8}$ " drive tools or 1" wrench.

**Caution:** Do not use with power tools.

### G. Cam Action End Filter Wrench

Removes hard-to-reach oil filters. Unique cam action jaws fit all filters within operating diameter. Drive with square drive tools, open end or box wrench.

**Caution:** Do not use with power tools

Item No.	Description
3003	Range: 3 $\frac{3}{8}$ " to 3 $\frac{1}{2}$ " (86mm to 98mm). Turn with $\frac{1}{2}$ " square drive tools or 1" wrench.
3004	Range: 2 $\frac{1}{4}$ " to 3" (70mm to 76mm). Turn with $\frac{3}{8}$ " square drive tools or $\frac{7}{8}$ " wrench.

### H. 3149 Nylon Strap Oil Filter Wrench

Use on oil filters up to 6" (152mm) capacity. Strong nylon belt will not slip. Use with  $\frac{1}{2}$ " square drive tools.

**Caution:** Do not use with power tools



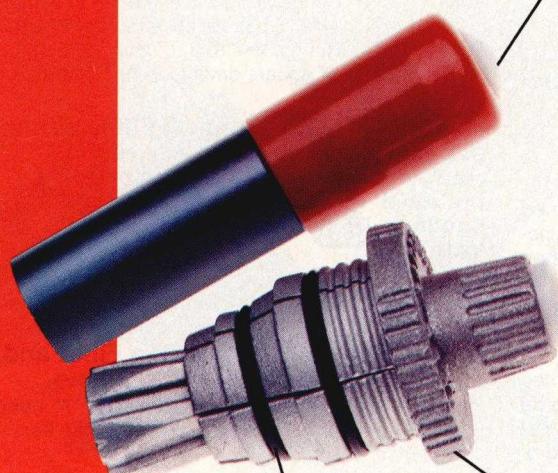
### I. 47 VW Transmission Filter and Drain Wrench

Removes and installs VW drain plugs. 7" handle provides plenty of leverage. Heat treated steel. 17mm hex.

### J. 2837 12mm Hex Drain Plug Remover

Special wrench fits 12mm hex transmission filler and drain plug sockets of Fiats, Chrysler K, Yugo and other cars. Long arm provides leverage to free tight sockets.

**KD 3292  
Bearing  
Race Driver**



Optional handle with rubber sleeve  
to get at deep-seated bearing  
races comfortably

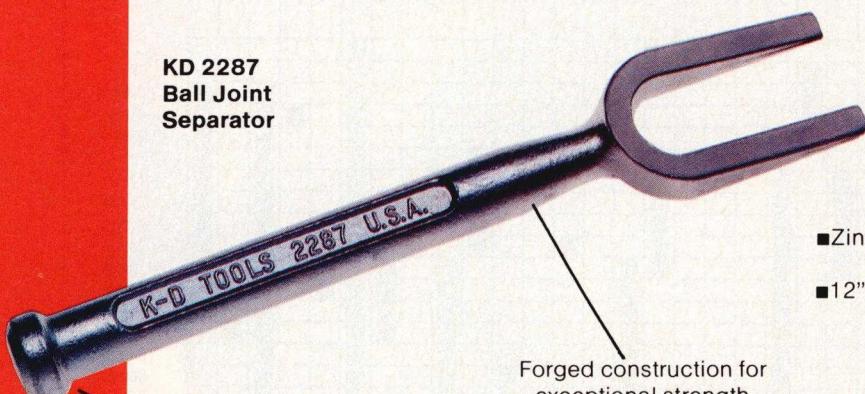
■ Adjustable to fit bearing races  
from 1-7/16" through 2-7/16"

Non-ferrous alloy construction  
eliminates damage to races and  
allows greater driving force

Knurled grip means  
easy adjustment

Tough Delrin® cap provides  
long life under continuous use

**KD 2287  
Ball Joint  
Separator**



■ Zinc plated to resist corrosion

■ 12" length for long reach

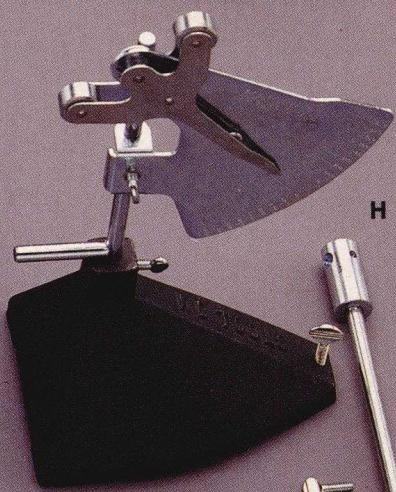
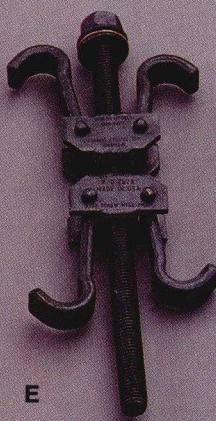
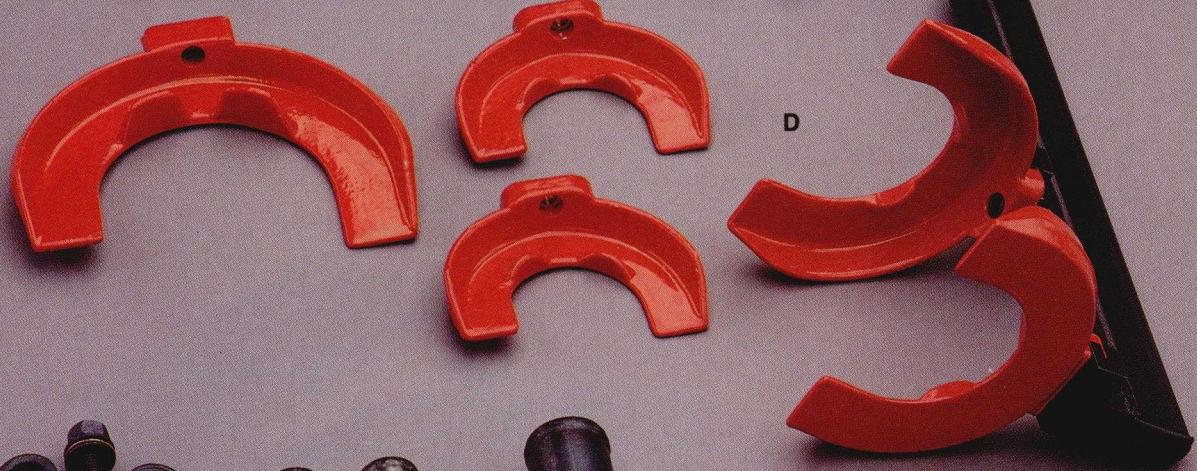
Forged construction for  
exceptional strength  
and durability

Hand stop on grip provides  
safer operation

K-D Tools®

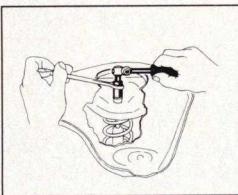


SUSPENSION & DRIVE TRAIN



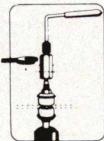
### A. 2333 Shock Absorber Tool

Removes and installs shocks on most U.S. cars. Oval (Double-D) socket holds end of shock. Hex socket turns mounting nut.  $\frac{1}{4}$ " and 15mm hex sockets fit most late model U.S. cars. Turn hex socket with  $\frac{3}{4}$ " wrench. Comfortable plastic hand grip.



### B. 2819 Front Shock Absorber Tool

Removes and installs front shocks on most American cars. Also fits some AMC rear shocks. Reaches recessed mounting bolts with 3" long,  $\frac{1}{4}$ " and 15mm double-ended hex socket. Holds shock with oval-slotted socket and handle.



### C. 3028 Ford Shock Tool Kit

Easily removes and installs both OEM and aftermarket shock and strut nuts, especially on late model Ford Escort/Lynx and Tempo/Topaz. Kit includes a 6mm hex key, adapter for shock shafts, and 18mm and  $\frac{3}{4}$ " deep external hex drive sockets.

### D. 3144 MacPherson Strut Spring Compressor

This tool will efficiently compress MacPherson strut springs ( $\frac{3}{4}$ " to  $9\frac{1}{4}$ " in diameter) on foreign and domestic vehicles. Specially contoured jaws are designed to fit securely around the spring. Jaws are forged and plastic coated to protect epoxy coated springs found on late model vehicles. Built-in lips prevent slipping. Complete with two and one half pairs of jaws to cover most applications. The  $1\frac{1}{16}$ " hex drive head uses a shear pin to prevent overloading the tool. An extra shear pin is also supplied. Tool can be used with power tools. Tool can be used on or off the car.

**Caution:** Do not exceed the working load of 2200 pounds. Follow safety instructions provided with this tool.

Replacement part available:

3144-22 Sheer Pin

### E. 2528 Coil Spring Compressor

Compresses suspension coil springs for installation and removal. Strong steel jaws securely hook into coil spring. Fits most American and some imported cars and  $\frac{1}{2}$  ton trucks. Does not work on AMC and Ford with coil spring above upper control arm.

**Caution:** Wear safety goggles. Do not use on MacPherson strut springs. Do not use with power tools.

### F. Inner Tie Rod Tools

These two tools are used for removing and installing tie rods on rack and pinion steering units without removing the rack from the vehicle. Will work on most TRW and Saginaw rack and pinion units found on GM, Ford, Chrysler and AMC vehicles.

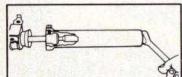
#### Item No. Description

3310	1 $\frac{3}{16}$ " Inner Tie Rod Tool
3311	1 $\frac{5}{16}$ " Inner Tie Rod Tool

**Caution:** Hold the rack to prevent damage to the pinion. Do not use with engine running. Wear eye protection. Do not use with power tools. For intended use only.

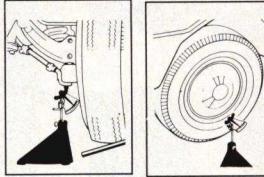
### G. 3312 Deluxe Inner Tie Rod Tool

Removes and installs inner tie rods on many GM and some Chrysler products that do not have a hex inner end nut, but use 2 flats that measure  $1\frac{1}{16}$ " across. Also allows for use on all inner tie rods with  $1\frac{3}{16}$ " and  $1\frac{5}{16}$ " hex sizes.



### H. 233 Ball Joint Inspection Gauge

Checks ball joint wear and tire and wheel runout in .020 increments. Includes heavy steel base and extension bar. Easily adjusts to fit most cars.



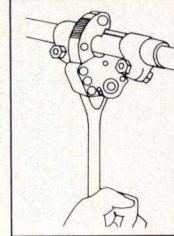
### I. 416 "RAMO-MATIC" Zerk Fitting Tool

Clears grease fittings of hardened matter. Fits straight and angled zerk type fittings. Fill with oil or grease and hold against zerk fitting. Strike with hammer to clear fitting.

**Caution:** Must wear safety goggles.

### J. 2903 Split Sleeve Tie-Rod Adjusting Tool

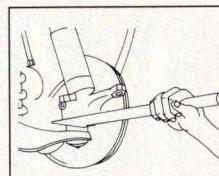
Designed for easy placement, the tool spreads and rotates split tie-rod sleeves, allowing the mechanic to perform most tie-rod work required. Use with a  $\frac{3}{8}$ " square drive tool. Tool is ideally suited for use on all full-size domestic vans.



### K. 2287 Ball Joint Separator

Separates ball joints from steering knuckles. Insert  $1\frac{1}{16}$ " opening between parts and strike with hammer. Forged to withstand hard usage. Overall length 12".

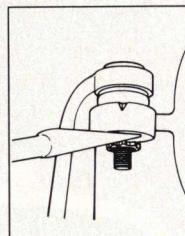
**Caution:** Wear eye protection.



### L. 3316 Ford Ball Joint Cam Tool

Easily removes ball joint alignment cams. Simply place prongs of fork under flange of cam, then tap with a hammer. Cam is pulled from tapered seat and can then be rotated for alignment, adjustment or replacement.

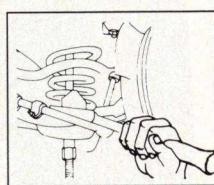
**Caution:** Wear eye protection. For intended use only.

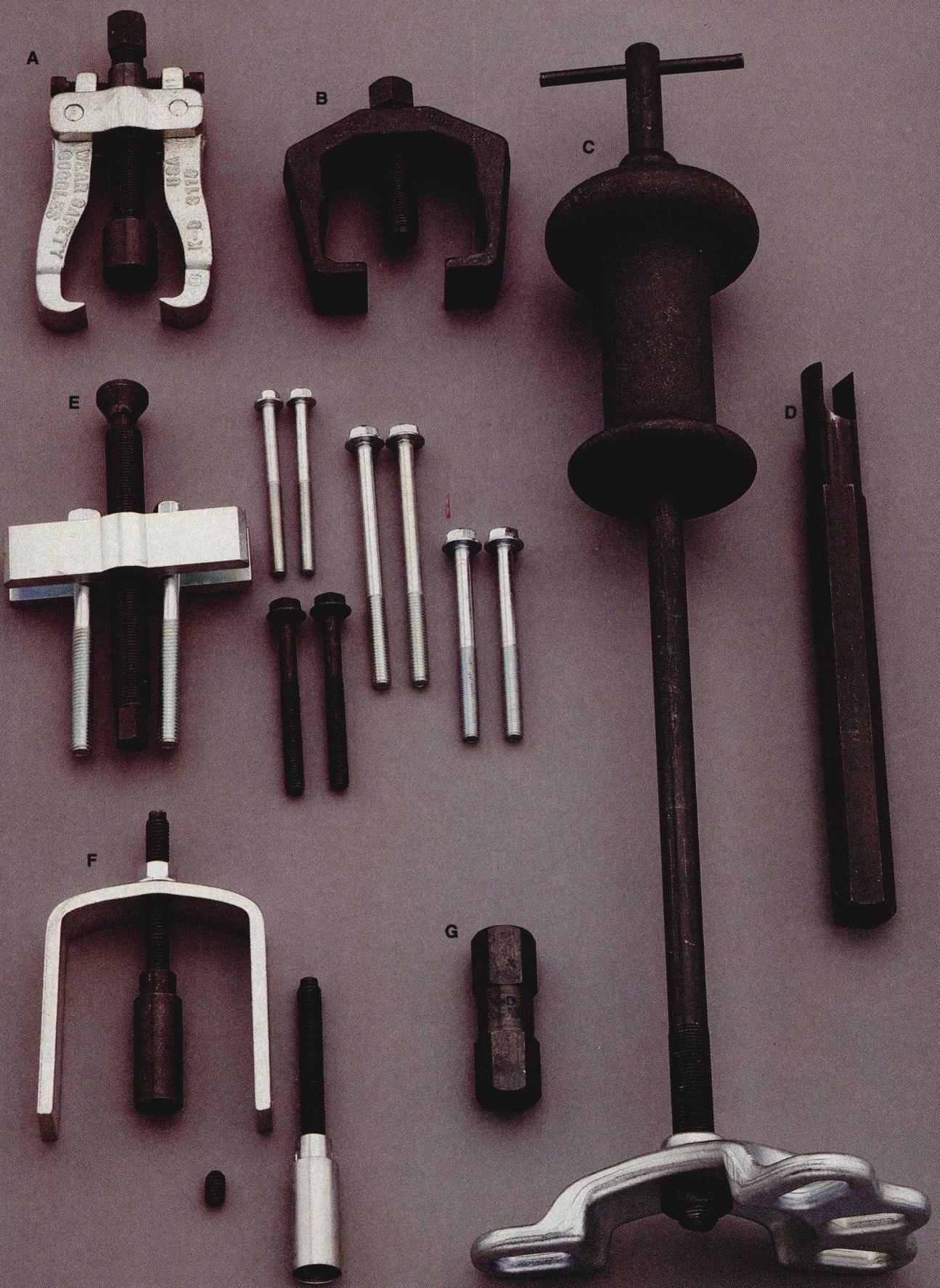


### M. 2288 Tie Rod Separator

Powerful tool for separating tie-rods. Insert  $2\frac{1}{32}$ " opening between parts and strike with hammer to separate. Forged to withstand hard usage. Overall length is 12".

**Caution:** Wear safety goggles. For intended use only.





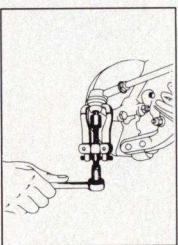
### A. 3119 Universal Steering Linkage Puller

This versatile tool can be used on cars and light trucks to remove tie-rod ends and some ball joints. Tool can be locked in place with socket head cap screws to prevent slippage. Tighten with wrench and tap lightly on center screw to remove component. Safety sleeve on center screw prevents tool overload. Maximum opening  $2\frac{1}{16}$ ", maximum reach  $2\frac{3}{32}$ ".

**Caution:** Wear safety glasses. Do not use with power tools.

Replacement part available:

3119-78 Bushing, Load Screw and Cup.



### B. 2289 Pitman Arm Puller

Removes full size Pitman arms. Mount jaws over Pitman arm and turn center screw with wrench until tight. Strike center screw with hammer to release Pitman arm. No other tools needed. Drop forged and heat treated steel yoke.

**Caution:** Wear safety goggles. Do not use with power tools.



### C. 2300 Flange Type Axle Puller

Pulls rear axle on American made cars and  $\frac{1}{2}$  ton trucks with flange type axle. Yoke fits axles with 4, 5, or 6 studs in circle from  $4\frac{1}{2}$ " to  $5\frac{1}{2}$ " in diameter. 5 lb. slide hammer makes removal easy. Slide hammer and yoke are  $\frac{5}{8}$ "-18 UNF thread.

Replacement parts available:

2300-71 Yoke (standard)

2300-73 Hammer (5 lb.)

2300-75 Yoke (compacts)

### D. 3258 Ford Differential Rotor

Designed to remove front wheel drive half shafts and prevent the dislocation of differential side gears when both half shafts are removed. Applications include: Ford Escort/Lynx 1981 through current, EXP 1982 - 1989, LN7 1982 - 1983, and Tempo/Topaz 1984 through current.

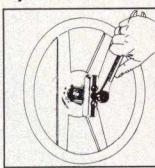
**Caution:** Wear safety goggles.

### E. 2291 Steering Wheel Puller (Crankshaft Pulley Puller)

Pulls steering wheels on most U.S. and imported cars. Floating swivel on center screw prevents damage to steering column. Five sets of side bolts included:  $\frac{3}{8}$ "-16 UNC,  $\frac{5}{16}$ " UNC,  $\frac{5}{16}$ "-24 UNF,  $\frac{1}{4}$ "-28 UNF, 8mm x 1.25. Will also remove crankshaft pulleys on Chrysler 2.2L and 2.5L engines.

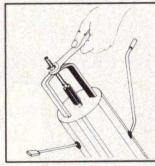
Replacement part available:

2286-76 Load Screw



### F. 2414 Steering Wheel Lock Plate Remover and Installer

Depresses steering wheel lock plate allowing easy removal and reassembly of snap ring. A must for servicing turn signals, ignition switches, and steering locks built into the steering column. Includes SAE and metric center screw adapters. Set screw included to lock telescopic column in place while depressing lock plate.



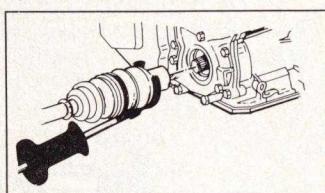
### G. 3295 Steering Unit Stud Seating Tool, 12mm and 14mm

Use to draw the locking taper of the stud into the component. After removal of the tool, the locking nut can be installed and torqued. Features a  $\frac{3}{4}$ " external hex used to make yoke bearing adjustments on Ford rack and pinion steering units.



## A. Inner CV Joint Pullers

Used with a 2½ lb. slide hammer, this tool will pull most CV joints that use a hidden snap ring to hold them in the transaxle.



**3164** - Inner CV Joint Pulley Puller only, fits slide hammer with ½"-13 UNC threads.

**3166** - Inner CV Joint Puller with Slide Hammer.

**Caution:** Wear safety goggles

## B. CV Joint Disassembly Tools

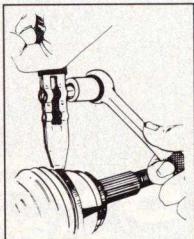
Used to disassemble CV joints for inspection and replacement of ball bearings. This tool is used to rotate the center spider and cage, exposing the ball bearings for removal.

### Item No. Description

<b>3168</b>	Small CV Joint Disassembly Tool. Works on all GM, C, E and K body vehicles; S-10 Blazer and S-15 Jimmy; Ford Escort, Lynx, LN7, and Tempo; Chrysler L, K, E, and 1984 - 1986 S body vehicles. Includes pilot sizes .915 and .975 inches.
<b>3170</b>	Large CV Joint Disassembly Tool. Works on all pre-1978 GM cars; GM 1982 - 1985 X, J & P body vehicles; Chrysler Champ and Colt; Honda, Mazda, and Nissan. Includes pilot sizes .84 and 1.23 inches.
<b>3190</b>	CV Joint Disassembly Tool Set. Set includes one each of <b>3168</b> and <b>3170</b> .

## C. 3191 CV Joint Boot Clamp Tightening Wrench

Securely fastens Band-it® style free end clamps, roll band and clips, or Band-it Jr.® style preformed CV Boot Clamps. The tool is used by turning "winding mandrel" with a ½" socket or wrench. The mandrel tightens the clamp, holding it in place until the ears of the clamp are folded down.  
©Band-It-Houdaille, Inc., Denver, Colorado, USA. 1985. All Rights Reserved.



## D. 3075 Small CV Joint Boot and Ring Remover and Installer

For removal and installation of CV joint boots and rings. Eliminates the possibility of distorting the ring or poking a hole in the boot. To remove old boot and ring assembly, axle assembly must be removed from vehicle. Place tool over CV joint and align it against the face of the clamp ring. Strike the tool cross member lightly with hammer. Be careful not to damage the CV joint external threads. To install new boot and ring assembly, slip tool around the boot convolutions to the clamp ring. Align the clamp ring on the CV joint squarely. Strike the cross member firmly with a hammer to drive the clamp onto the CV joint. Fits all GM A, X, and J model, front-wheel drive vehicles.

**Caution:** Wear safety goggles.

## E. 424 CV Joint Boot Clamp Pliers

Hose clamp installer for easy installation of Perma-Quick type hose clamps on fuel filters, water pumps, other cooling system hoses, and CV joint boot clamps. Will work on late model GM "Super Boot". Jaws crimp the clamp. Includes four ½" replacement clamps.

**Replacement part available:**

**424-70** Perma-Quick Clamps (pack of five ½" clamps)

## F. 3146 Drive Axle Puller

For use on front wheel drive axle shafts. Use with slide hammer to remove axle assembly to service front wheel drive components. For use on Rzeppa joints only, will not work on Tripoidal joints. Fits slide hammer with ¾"-UNF thread.

**Caution:** Wear safety goggles.

## G. 47 VW Transmission Filler and Drain Wrench

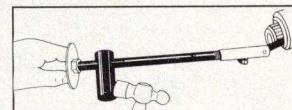
Removes and installs VW drain plugs. 7" long handle provides plenty of leverage. Heat treated steel. 17mm hex.

## H. 2837 12mm Hex Drain Plug Remover

Special wrench fits 12mm hex transmission filler and drain plug sockets on Fiats, Chrysler K, Yugo and other cars. Long arm provides leverage to free tight sockets.

## I. 2824 Seal and Pilot Bearing Puller

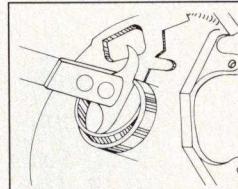
Hooked end removes seals and pilot bearings without breaking. Roll hook under edge of seal and hit striking block with hammer. Hook can be used on frozen seals. Puller has ½"-13 UNC threads. Not recommended for caged needle bearings; damage to caged needle bearings may occur.

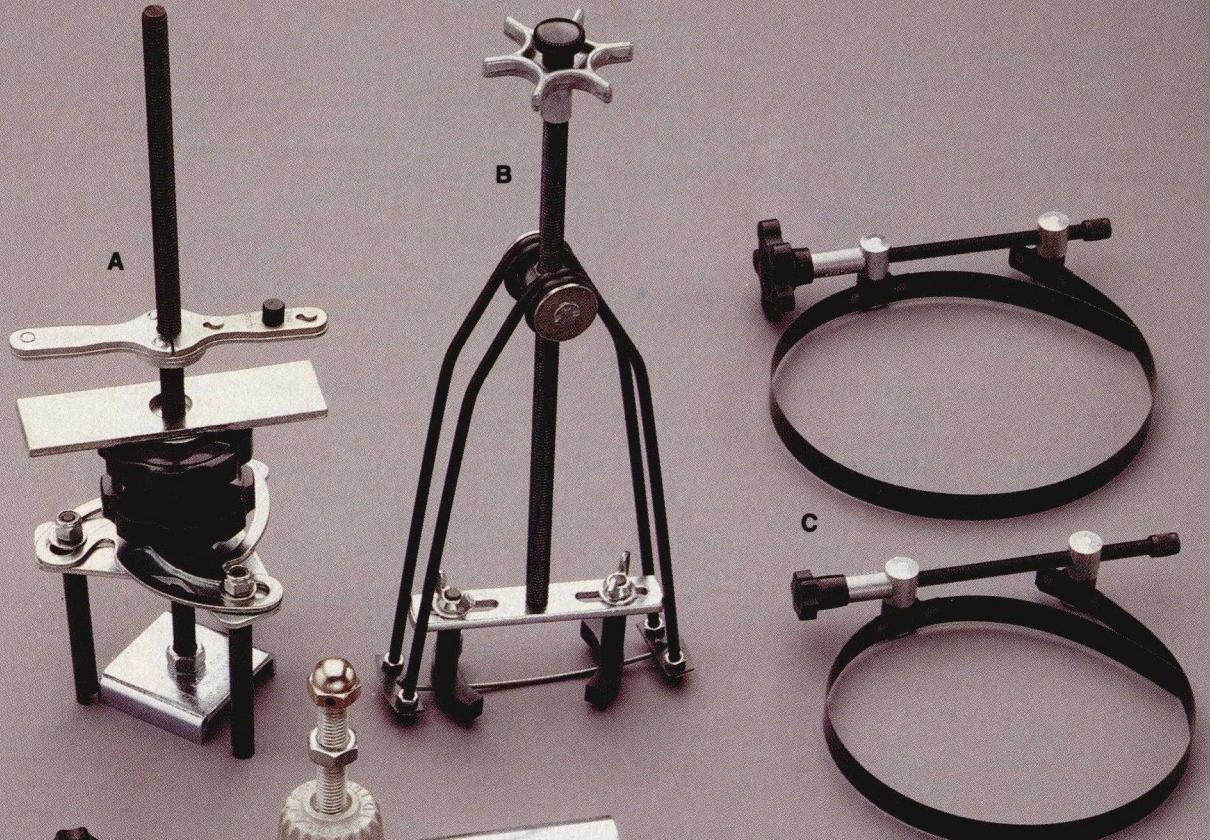


## J. 3245 Seal Puller

Use tool to remove oil and grease seals on automobiles and light trucks. Puller has two tip sizes for most applications. Insert tip behind seal and use leverage to remove.

**Caution:** Wear safety glasses. Do not use as a striking tool. For intended use only.





**A. 2047 Automatic Transmission Clutch Spring Compressor**

Compresses automatic transmission clutch springs for easy removal and installation of lock rings. Completely adjustable. Features quick release for easy removal.

**B. 2398 Automatic Transmission Clutch Spring Compressor**

Compresses automatic transmission clutch springs on some GM, Ford, Toyota, and other transmissions. Permits easy removal and installation of snap rings. Job can be completed without removing center shaft and clutch assembly from transmission housing. Force legs in and catch jaws inside transmission drum groove. Loosen wing nuts and adjust pushers. Tighten screw until lock ring is free to be removed. Patent #4,031,603.

**C. Transmission Front Pump Alignment Bands**

Necessary for accurate alignment of transmission front pumps. Special knurled thumb nut and knob speeds adjustments.

Item No.	Description
3337	GM-THM 200, 200-C, 200R4, 250, 350, 350-C, 375, 400, 425, and 700R4, and Chrysler-Torgulfite 6(904-999) with or without lock-up.
3338	Toyota A40 and other small transmissions.

**Caution: Wear safety goggles. For intended use only.**

**D. 3339 Transmission Snap Ring Installer**

Eases and speeds installation of hard-to-reach snap ring for pressure regulator valve. For use in GM 200-4R and 700-R4 transmissions. Can be used while the transmission is in or out of the car.

**Caution: Wear safety goggles. For intended use only.**

**E. 3127 Automatic Transmission Extension Housing Bushing Remover and Installer with Rear Output Shaft Support Tool**

Use to remove and replace extension housing bushing even with transmission still in car. Tube expands segments for easy removal of bushing and positive location of replacement bushing. Adapters included to fit the following transmissions: GM THM-180, 200, 300, 250, 350, 375, 200R4, 700R4, 180C, 200C and 350C; Ford C-4, C-5, and (AOD) automatic overdrive; Chrysler TF904, 1972 on. Removes bushing using special puller screw and drives in bushing by striking tool with plastic or rubber mallet. Tool can be used as a rear output shaft support on GM transmissions 200, 200C, 200R4, and 700R4. Supports output shaft during disassembly and assembly of transmissions. Instruction sheet included.

**Caution: Wear safety goggles. Do not use with impact wrench.**

**F. 2420 Clutch Aligning Set**

Aligns single disc clutches on American and imported cars, light trucks, and tractors. Adapter fits through clutch plate and into pilot bushing or bearing. Tapered cone fits into clutch hole and aligns clutch plate properly. Includes shaft and eight two-stepped pilot bearing adapters: for 16 sizes. Plate aligning cone has 1 1/8" maximum diameter taper.

**G. 2547 Transmission Stop-Off Tool**

Eliminates the need to drain transmission fluid when making repairs or replacing drive shaft U-joints. Tool plugs transmission drive shaft opening reducing transmission fluid waste. Fits most domestic rear wheel drive cars. Patented.

**H. Bushing Remover and Installer Sets**

Remove and insert bushings such as those in cars, trucks, buses, tractors, construction and off-road equipment. Size is stamped on each bushing adapter. Select proper size adapter and drive bushing into place.

Item No.	Description
31420	24-Piece Bushing Remover and Inserter Set. Sizes range from 3/8" to 1 1/4".
31430	9-Piece Bushing remover and Inserter Set. Sizes range from 1 5/16" to 1 3/4".

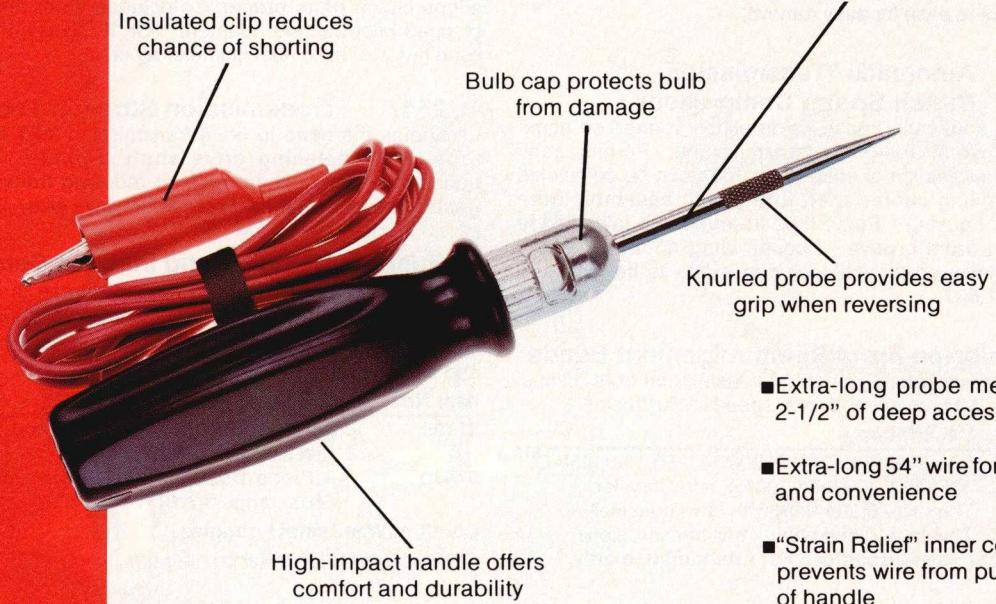
**Caution: Wear safety goggles.**

See price sheet for replacement parts.

**I. Transmission Seal Removers and Installers**

Removes and installs transmission shift selector shaft seals without draining fluid. Screw cone shaped threads into seal and tighten remover screw to pull worn seals. Place installer over new seal and selector shaft and tap with hammer to install.

Item No.	Description
2392	For Chrysler transmissions
2393	For GM transmissions

**KD 126  
High-Low  
Voltage Tester**

Reversible probe allows dual use as both a high and low voltage tester

Knurled probe provides easy grip when reversing

- Extra-long probe means up to 2-1/2" of deep access
- Extra-long 54" wire for extra ease and convenience
- "Strain Relief" inner construction prevents wire from pulling loose of handle

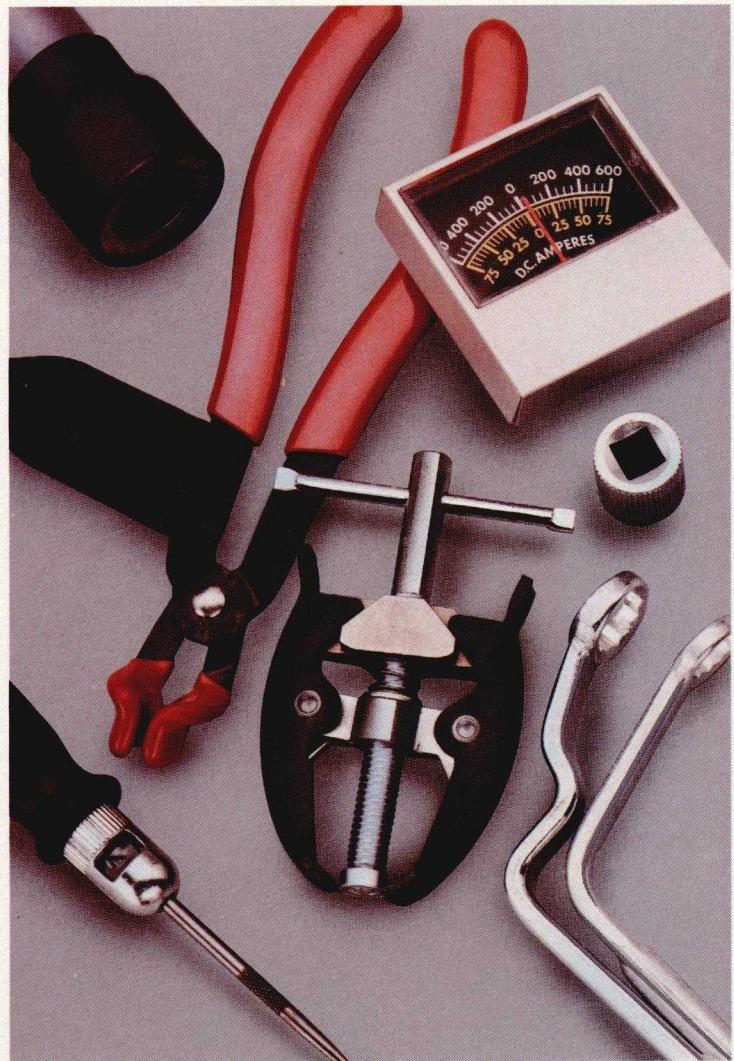
**KD 104  
Distribution  
Clamp Wrench**

■ Two-in-one design with 1/2" and 9/16" broach for a wide range of applications

■ Zinc plated to resist rust

Detachable wrenches can be used alone or with a drive tool in hard-to-reach areas

**K-D Tools®**

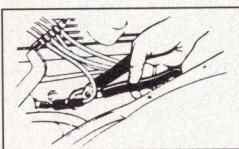


**IGNITION & ELECTRICAL**



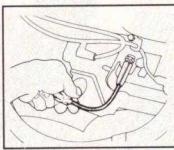
### A. 135 Spark Plug Terminal Pliers

Safely removes spark plug cables. Pliers prevent damage to cables. Handles and jaws are coated with heavy-duty plastic for sure grip.



### B. 2592 Spark Plug Starter

Easily insert and remove hard-to-reach spark plugs with this 10½" flexible shaft tool. Neoprene head grips all standard spark plugs firmly. Releases easily. Tool helps you avoid hot engine burns. Use standard spark plug socket and ratchet to loosen and tighten plug.



### C. 2568 Spark Plug Boot Puller

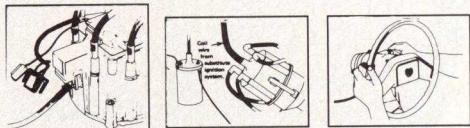
Use this non-conductive tool to safely remove spark plug boots with the engine running. Flexible shaft makes it easy to reach spark plug boot. Tool helps you avoid engine burns.



### D. 2632 Portable Ignition System

Unit allows a car with ignition system problems to be started and driven. Operates as a substitute ignition system. Bypasses points, condenser, and coil in conventional systems. Bypasses pick-up and control unit in GM HEI systems. Unit mounts in engine compartment. On/off switch is on long lead which reaches driver's compartment. Simple connections and flip of switch is all that is needed to start car. Also ideal for marine use. Serviceable product.

**Note:** Will not work with computer controlled fuel-injection systems.



### E. 124 Remote Control Starter Switch

Use to bypass ignition switch on any engine with solenoid starter switch. Lets you crank engine while working in engine compartment. 44" long leads. Heavy-duty construction. Connect from positive terminal of battery to energizing terminal of solenoid. Use for generator, starter, and electrical tests, setting ignition points, fuel pump tests, adjusting tappets and compression tests.

**Caution:** Care should be taken to keep away from hot or rotating components.

### F. 103 Distributor Tower Brush

Removes rust, dirt, and corrosion from distributor tower head sockets. Simply insert tool into socket and twist. Fits most distributors.

### G. 2153 Ignition File

Files ignition points and other small objects. Thin blade with fine grid on both sides is ideal for removing carbon from points.

### H. 3197 5.5mm Ford Distributor Module Socket

Easily removes and replaces mounting screws on Ford ignition modules that are attached to the distributor. Module can be replaced without removing the distributor. Use with ½" open or box wrench, or ¼" square drive ½" socket. Plated for corrosion resistance.

**Caution:** For intended use only.

### I. 4088 Ignition Tune-Up Kit

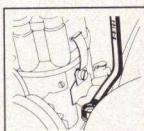
Check point gaps, clean points, start ignition point anchor screw, and loosen and tighten internal distributor nuts with this set. Kit covers popular SAE sizes. Includes feeler gauge, ignition file, mini-screw starter, and seven miniature offset wrenches (1¾" to ¾"). Wrenches are precision heat-treated and chrome-plated.

Replacement parts available:

2062	Mini feeler Gauge
2152	Miniature Screw Starter
2153	Ignition File
4081	1¾" and 1⅓" Wrench
4082	1⅓" and 7/32" Wrench
4083	17/64" and 1/4" Wrench
4084	5/16" and 9/32" Wrench
4085	9/32" and 5/16" Wrench
4086	5/8" and 11/32" Wrench
4087	11/32" and 3/8" Wrench

### J. 104 Distributor Clamp Wrench

Reach around obstructions to turn distributor lock nut with this double-ended wrench. Fits ½" and ¾" lock nuts. Use adapter to join wrenches together or attach to ¾" ratchet or extension.



Replacement part available:

104-73 Coupler

### K. Distributor Clamp Wrenches

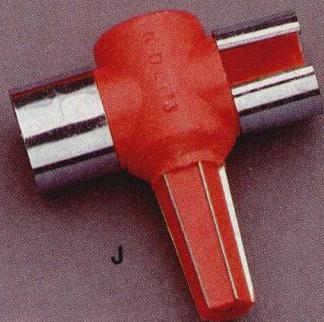
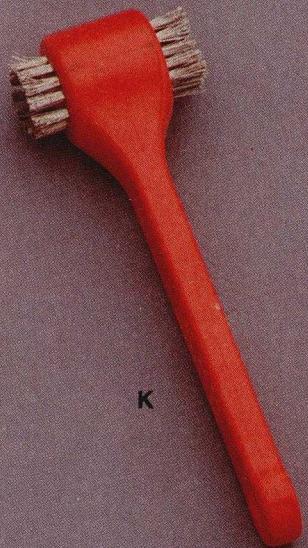
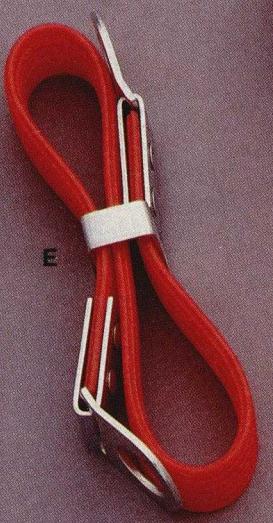
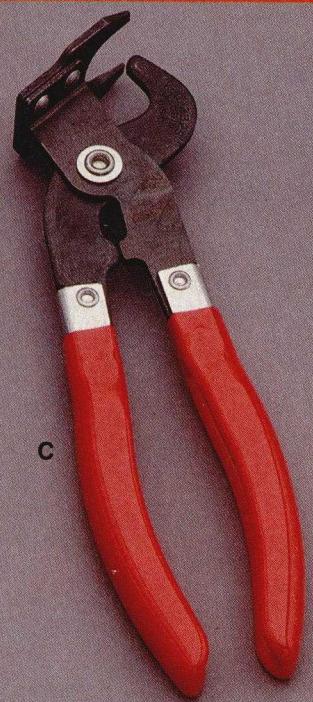
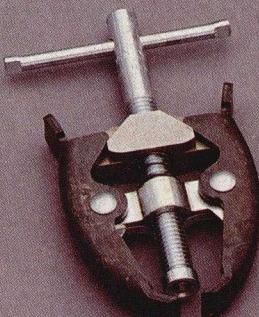
Use these single size wrenches to reach around obstructions to turn distributor clamp bolts.

Item No.	Description
2575	½" Distributor Wrench American Motors: Chrysler: International: Ford: 258, 6 Cyl. V-8 4 Cyl., 258 6 Cyl. V-8
2576	¾" Distributor Wrench American Motors: General Motors: 348 V-8, 360 V-8 V-8, 190 6 Cyl., 230 6 Cyl.
2578	12mm Distributor Wrench Toyota: 8R 4 Cyl., 184R 4 Cyl., 20R 4 Cyl., MX 6 Cyl., F155 6Cyl.
2579	13mm Distributor Wrench Ford: 2000CC 4 Cyl., 2800CC V-6, 5.0L V-8, 3.3L 6 Cyl. Chrysler: K car 4 Cyl., 105 4 Cyl.
2580	17mm Distributor Wrench Fiat: Ford: 1600CC 4 Cyl. 2300CC 4 Cyl.



### L. 3084 Ford V-6 Distributor Clamp Wrench

Designed to tighten and loosen distributor hold down bolts on Ford Ranger and Bronco II with 2.8L V-6 engines. Offset extension clears emissions equipment. Detachable 13mm 12 PT socket allows use of extension with other ¾" drive sockets.



### A. 203 Battery Nut Pliers

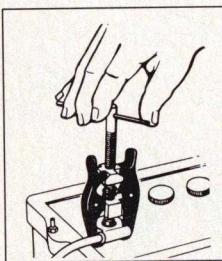
Easily loosen and tighten nuts on battery terminal clamps. Handles are offset for work in cramped areas. Serrated jaws designed for sure grip.



### B. 202 Battery Terminal Puller

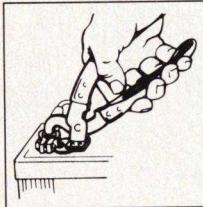
Use to remove battery terminal clamp without damage to battery post. Will work even on corroded spring type clamps. Loosen clamp bolt. Place jaws under each side of battery cable clamp. Tighten center screw until clamp is free.

Replacement part available:  
202-78 Jaw



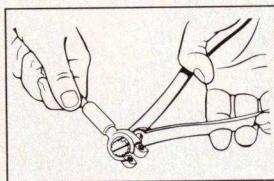
### C. 2325 Battery Clamp Remover

Easily remove corroded battery terminal clamps with this tool. Slip jaw under clamp and squeeze handle to remove. Firm pressure will lift clamp without twisting, prying or damaging the cable or post.



### D. 204 Battery Terminal Spreader and Cleaner

Clean and spread battery cable terminals with this pliers type tool. Sharp teeth effectively clean corrosion from clamp. Squeeze handle to spread clamp.



### E. 205 Battery Carrying Strap

Carry top terminal batteries with this strong plastic strap. Ends marked and sized to accurately fit positive and negative terminals. Strap not harmed by battery acid. Strap is 14" long.

### F. 2279 Battery Carrying Strap

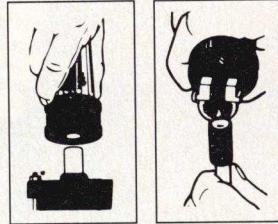
Carries top mounted and side mounted terminal batteries. Ends are marked and sized to accurately fit positive and negative terminals. Strong plastic strap is not harmed by battery acid. Strap is 14" long. Can also be used as a charging adapter on side mounted terminal batteries.

### G. 2118 Spot-Check Battery Tester

Check battery cell condition with this hydrometer. Quickly determine percentage of charge in each cell. Floating balls indicate condition of battery. Works on batteries with fill caps.

### H. 201 Battery Brush

Removes corrosion and dirt from battery terminals and cable clamps. High impact plastic case will not corrode or soften in cleaning solutions. External brush for cable clamps. Internal brush for terminal posts.

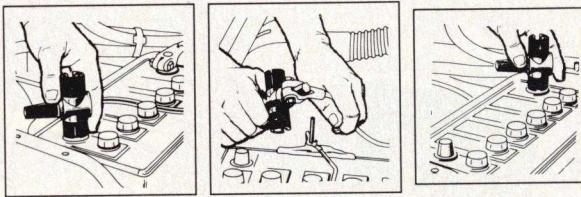


### I. 206 Battery Brush

Use this durable steel brush to remove corrosion and dirt from battery terminals and cable clamps. Rugged steel case has long life. External brush for cable clamps. Internal brush for terminal posts.

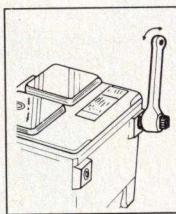
### J. 2173 Three Way Battery Tool

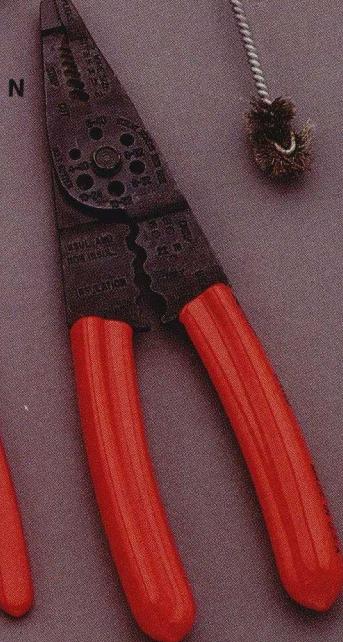
Sharp steel blades on this tool remove corrosion and put correct angle on terminal clamps and posts. Use six-bladed tapered reamer to quickly clean terminal clamps. Post cleaners are marked positive and negative. Sized to fit terminal posts accurately and cut correct angle. Proper cleaning of terminals and posts assures perfect contact.



### K. 2839 Side Post Battery Brush

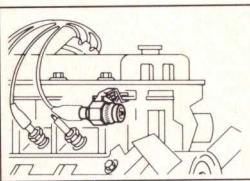
Cleans corrosion from side post batteries. Bristles on one side reach recessed terminals; other side cleans cable clamps.





### A. Calibrated Ignition Testers

Accurately check for spark in ignition systems without removing spark plug from engine. Testers verify that energy is sufficient for spark plug to fire. Attach spark plug wire to tester end. Clamp tester to engine as ground. Crank engine and check for spark.



#### Item No. Description

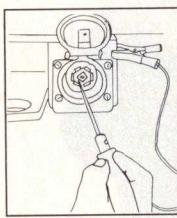
- |      |   |
|------|---|
| 2756 | <b>HEI Ignition Tester</b> Calibrated for high-energy systems.            |
| 2757 | <b>Standard Ignition Tester</b> Calibrated for standard ignition systems. |

### B. 126 High-Low Voltage Tester

Checks 6 and 12 volt circuits for voltage and spark plug for spark. Ground clip and touch probe to point being tested. Tester bulb will light if voltage is present. Screw probe into opposite end of handle to use as a spark tester.

Replacement parts available:

- 126-75 GE 1449 Bulb
- 126-76 Probe
- 126-78 Neon Bulb

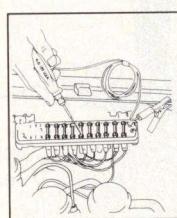


### C. 129 Low Voltage Circuit Tester

Tests for voltage in 6 and 12 volt systems. Ground clip and touch probe to point being tested. Tester bulb will light if power is present.

Replacement parts available:

- 126-75 GE 1449 Bulb
- 126-76 Probe
- 129-72 Plug

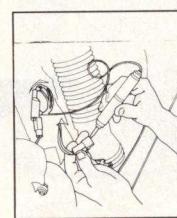


### D. 2646 Low Voltage Circuit Tester

Circuit tester for 6 and 12 volt electrical systems. Ideal tester for the home mechanic. Quickly checks headlight, tail light and turn signal circuits, faulty sockets, connections, fuses, and broken wires. Tough, durable shock resistant case. Includes 12-volt bulb in each end. Switch probe if bulb burns out. 36" cable.

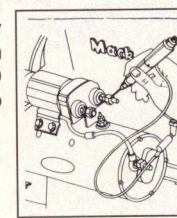
### E. 2647 Circuit Continuity Tester

Safely tests circuits with power off. Ideal for testing fuses, grounds, shorts, contacts, diodes, and open circuits. Designed for the home mechanic. 36" cable. One AA battery required (not included).



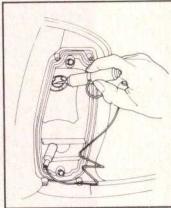
### F. 2648 24 and 48 Volt Voltage Tester

Circuit tester for 24 and 48 volt electrical systems. Quickly checks circuits, faulty sockets, connections and broken wires in trucks and off-road vehicles. Includes 50 volt bulb in either end. Switch probe if bulb burns out. 36" cable.



### G. 2649 Circuit and Spark Plug Tester

Checks 6 and 12 volt circuits for voltage and checks spark plug for spark. Place probe on end with regular bulb to check low voltage. Checks head lights, tail lights, turn signals and other circuits. Tests for faulty sockets, connections and broken wires. Place probe in end with neon bulb to check for spark voltage. 36" cable. Shock proof case.



### H. 2423 Current Indicator

Measures alternator and starter DC current in 6, 12 and 24 volt systems. Indicates direction of current flow without breaking into lines. Starter current scale: 600-0-600. Alternator current scale: 75-0-75. Place meter on wire. Crank engine to check starter current. Run engine to check alternator current.

### I. 2524 Short Circuit Detector

Locates short circuits in 6 and 12 volt systems right through upholstery, body panels and metal door posts. Connect tester across burned out fuse. Move meter along wire routing. Meter needle will oscillate until short is found.

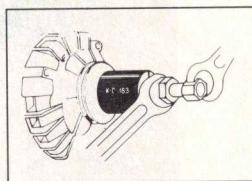
### J. 139 Socket Cleaning Brush

Removes corrosion and dirt from automotive lightbulb sockets. Wire bristles clean socket for perfect connection.

**Caution: For use in DC circuits only.**

### K. 183 Alternator Pulley Puller

Removes pressed-on alternator pulleys and internal bearings. Split jaws for easy access.



### L. 2897 Pulley Puller

Removes pressed-on alternator and power steering pulleys on late model GM, Ford and Chrysler engines. Threaded end installs late model GM alternator and power steering pulleys, including Quad Four. Reverse jaws to pull alternator internal bearing. Fits some AMC's.

Replacement part available:

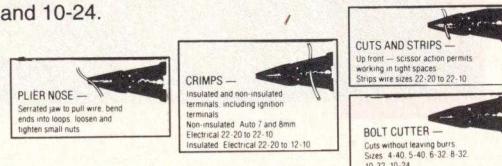
- 2897-76 Center Screw

### M. 2154 Electrical Pliers, Strippers, and Cutter

Strips, cuts, and twists wire. Crimps solderless terminals. Strips wire gauges 10, 12, 14, 16, 18, and 20 AWG (.05mm, .80mm, 1.0mm, 1.3mm, 1.6mm, 2.0mm, and 2.6mm). Cuts copper wire. Serrated needle-nose pliers pull, loop, and twist wire. Comfortable plastic coated grips.

### N. 2162 Electrical Wire Stripper and Crimper

All-purpose electrical tool includes pliers nose, crimper, wire cutter, stripper, and bolt cutter. Features comfortable cushion grip handles. Pliers nose has serrated jaw to pull, loop, and twist wire. Crimper works on 7mm and 8mm non-insulated terminals and electrical 22-20 to 20-10 insulated terminals. Wire cutters and strippers at front of tool strip wire sizes 22-20 to 22-10. Bolt cutter cuts bolt sizes 4-40, 5-40, 6-32, 8-32, 10-32, and 10-24.

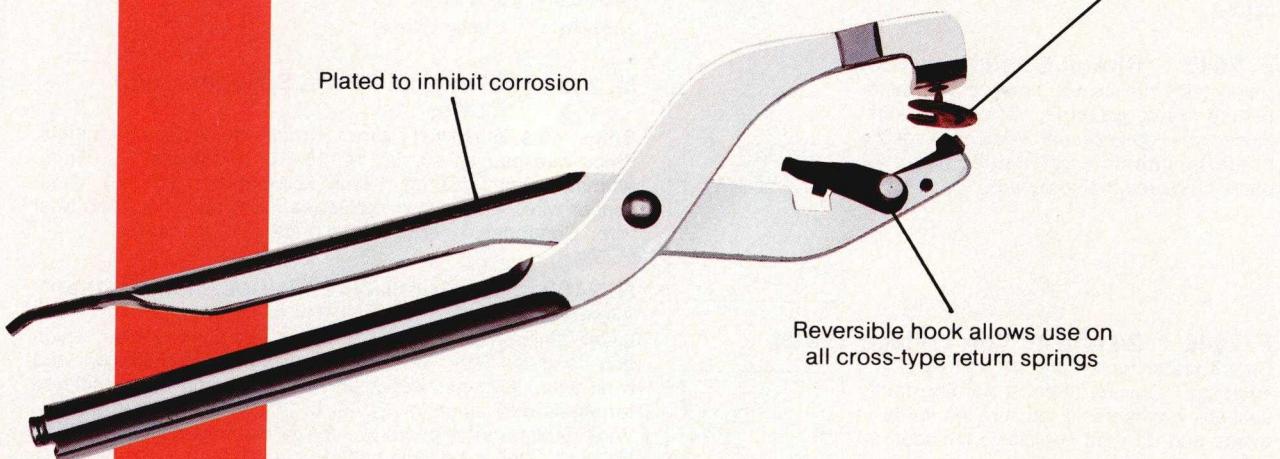


**KD 2222  
Brake Bleeder  
Tank**

Plated to resist corrosion

- Diaphragm keeps air and fluid separated in tank
- Pressure-release valve protects tank by releasing air when over-pressurized
- Shut-off valve provides an easy source to top-off master cylinders
- Large, 7-quart capacity requires less fill ups during use

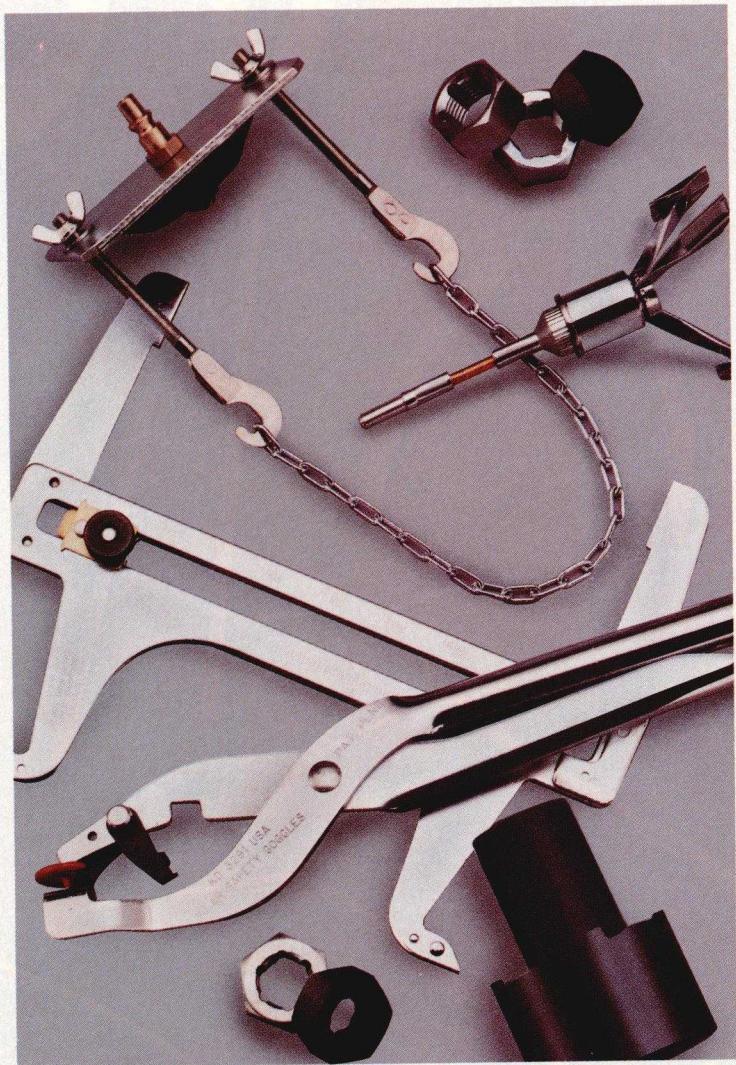
Quick disconnect allows fast and easy connection to master cylinder adapters

**KD 3291  
Brake Spring  
Pliers**

Plated to inhibit corrosion

Floating, padded foot prevents damage to brake friction material

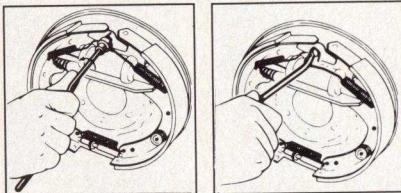
Reversible hook allows use on all cross-type return springs





### A. 280 Bendix Drum Brake Spring Tool

Removes and installs return spring on Bendix drum brakes. Place socket end over spring anchor and twist to remove. Hook notched end through spring and over the post, lift to install.

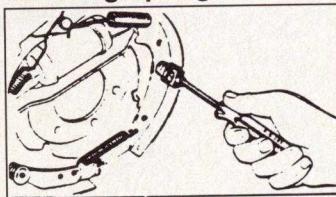


### B. 2402 Drum Brake Spring Tool

Removes and installs return spring on Bendix drum brakes. Place wide end over spring anchor and twist to remove. Hook narrow end through spring and over post, lift to install.

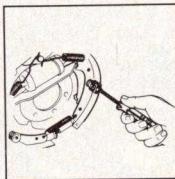
### C. 285 Brake Shoe Retaining Spring Tool

Removes and installs retaining springs  $1\frac{1}{8}$ " to  $\frac{7}{8}$ " in diameter. Special socket grips retaining washer. Push and turn to remove or install.



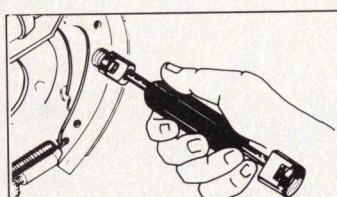
### D. 2773 Brake Shoe Retaining Spring Tool for Compacts

Removes and installs retaining springs  $\frac{5}{8}$ " to  $1\frac{1}{16}$ " in diameter on small car drum brakes. Small socket fits into tight places. Special socket grips retainer washer. Push and turn to remove or install.



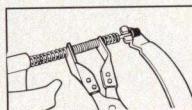
### E. 2774 Universal Brake Shoe Retaining Spring Tool

Double-ended tool removes and installs small and large car drum brake retaining springs. Fits sizes  $\frac{5}{8}$ " to  $1\frac{1}{16}$ " and  $1\frac{1}{16}$ " to  $\frac{7}{8}$ " in diameter. Special sockets grip retaining washers. Push and turn to remove or install.



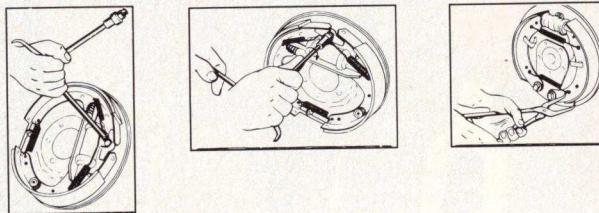
### F. 3341 Parking Brake Spring Compressor

Removes the parking brake lever cable affixed to the brake shoe on cars and light duty trucks with rear drum brakes.



### G. 298 Brake Spring Pliers

Removes and installs shoe return springs on most drum brakes. Socket end removes spring from anchor stud. Notched end installs spring on anchor. Pliers remove and install the return spring to outside of brake shoe.



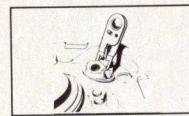
### H. 3291 Brake Spring Pliers

Removes and installs shoe return springs on drum brakes. Reversible hook design provides for removal and installation of either end of cross type return springs in confined areas. Full floating padded foot prevents damage to brake shoe friction material. Socket end removes spring from anchor stud. Formed end re-installs spring on anchor stud. Patent pending.

### I. 3017 GM Rear Brake Cylinder Clip Remover

Tool easily removes wheel cylinder held on by a retainer clip on the rear wheel of many late model GM vehicles including S-10 and S-15 light trucks.

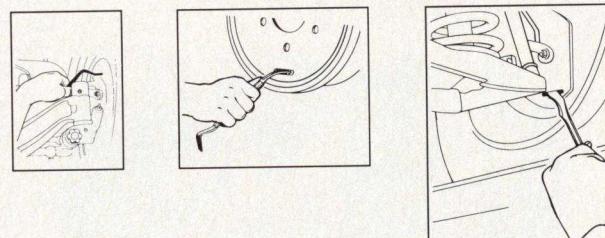
**Caution: Wear safety goggles.**



### J. Drum Brake Adjusting Tools

Adjusts clearance between brake drum and brake shoe. Fits through slot in backing plate and turns star wheel.

Item No.	Description
282	Truck Drum Brake Adjusting Tool—Designed to clear axle housing to reach slot in top of backing plate on some trucks.
287	Straight Drum Brake Adjusting Tool—Heads fit many drum brakes.
295	Offset Drum Brake Adjusting Tool—Heads are offset for hard-to-reach areas on small cars.

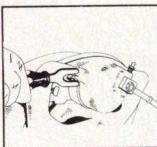




## A. 3198 Ford Disc Brake Caliper Wrench

Use to remove the spring pin assembly from the disc brake caliper on Ford Ranger/Bronco II, F150-350 super-duty trucks, full size Bronco and Aerostar.

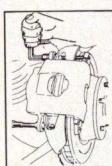
**Caution:** Wear safety goggles. For hand use only.



## B. Disc Brake Caliper Wrenches

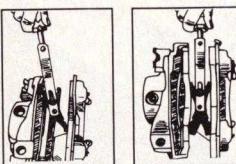
Turns hex socket cap bolts on some GM disc brake calipers for easy removal and installation. Designed for this hard-to-reach area.

Item No.	Description
2147	5/8" hex
2809	8mm hex



## C. 2145 Disc Brake Pad Spreader

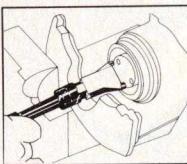
Spreads disc brake pad from  $\frac{3}{4}$ " to  $1\frac{1}{16}$ ". Holds pads in position while assembling caliper over rotor. Place jaws between pads and turn handle to spread pads.



## D. 2545 Ford Rear Disc Brake Piston Tool

Rotates piston back into the caliper cylinder when replacing pads. A must for servicing Ford and Mercury from 1975 to present, and some import rear disc brakes. Precision cast and heat treated for strength and durability.

**Caution:** Wear eye protection. Do not use with power tools.



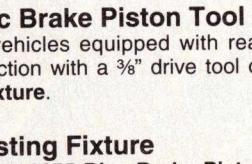
## E. 3163 Disc Brake Piston Tool

Designed to rotate the parking brake activated piston back into the caliper cylinder when replacing worn pads on vehicles equipped with four wheel disc brakes. This tool will function on most domestic and import vehicles.

**Caution:** Wear eye protection. Do not use with power tools.

## F. 3355 2 1/8" and 1 1/8" Disc Brake Piston Tool

Rotates the piston back on GM vehicles equipped with rear wheel disc brakes. Use in conjunction with a  $\frac{3}{8}$ " drive tool or the 3342 Disc Brake Adjusting Fixture.

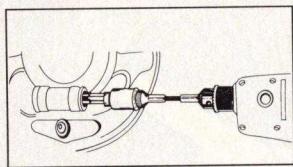


## G. 3342 Disc Brake Adjusting Fixture

Used in conjunction with the 3163 or 3355 Disc Brake Piston Tools to rotate the piston back into the caliper on the rear wheels of four wheel disc brake vehicles for the replacement of disc brake pads.

## H. 265 Brake Cylinder Hone

Hones drum brake wheel cylinders and disc brake calipers from  $\frac{13}{16}$ " to  $2\frac{3}{4}$ " (21mm to 69mm) in diameter. Sleeve makes insertion in cylinder easy and protects stones when not in use. Use with variable speed drill. For disc brake honing use 2004 Replacement Stone Set. For drum brake honing use 266 Replacement Stone Set.



## I. 267 Brake Cylinder Hone

Hones brake cylinders from  $1\frac{1}{16}$ " to 1" (18mm to 25mm) in diameter. Two-legged hone fits Volkswagen and other small diameter wheel cylinders. Collar prevents stone breakage. Use with variable speed drill. Use 268 Replacement Stone Set.

## J. 2544 Brake Cylinder Hone

Hones drum brake wheel cylinders and disc brake calipers from  $1\frac{3}{16}$ " to  $2\frac{3}{4}$ " (21mm to 69mm) in diameter. Works on cylinders through bore or blind end. Use with variable speed drill. For disc brake honing use 2004 Replacement Stone Set. For drum brake honing use 266 Replacement Stone Set.

## K. 3029 Economy Brake and Engine Cylinder Hone Set

Multi-purpose hone set includes three complete hones and one set of 2" stones.

Complete hone for brake, master and wheel cylinders  $\frac{3}{4}$ " through  $2\frac{1}{2}$ " capacity, with  $1\frac{1}{8}$ " medium grit stones.

Complete hone for small car brake wheel cylinders  $\frac{1}{2}$ " through  $1\frac{1}{4}$ " capacity, with two  $1\frac{1}{8}$ " medium grit stones.

Complete hone for disc brake caliper honing  $1\frac{1}{4}$ " through  $3\frac{1}{2}$ " capacity, with  $\frac{3}{4}$ " medium grit stones. Also ideal for lawn and garden small engine cylinder honing when used with three 2" medium grit stones included.

**Caution:** Wear safety goggles.

Replacement parts available:

3029-75 Three 2" Cylinder Hone Stones.

## L. Replacement Stones

Fits brake cylinder hones 265, 2544 and 267.

Item No.	Description
266	Three replacement stones for 265 and/or 2544 <b>Drum Brake Cylinder Hone.</b> 1" Stones, #320 Grit.
268	Two replacement stones for 267 <b>Drum Brake Cylinder Hone.</b> 1" Stones, #320 Grit.
2004	Three replacement stones for converting three-legged 265 or 2544 <b>Cylinder Hone</b> to Disc Brake Hone. $\frac{3}{4}$ " Stones.

## M. Brake Cylinder Flex-Hones®

Hones drum brake wheel cylinders from  $.787$ " to  $1\frac{3}{8}$ " (20mm to 35mm) in diameter. Develops plateaued finish for excellent brake fluid retention. Use with variable speed drill.

Item No.	Size	Recommended Minimum Working Dia.	Grit	Length of Beaded Section	Overall Length
2480	$\frac{7}{8}$ "(22mm)	.787"(20mm)	180	3"	8"
2481	1"(25mm)	$\frac{7}{8}$ "(22mm)	180	3"	8"
2482	$1\frac{1}{8}$ "(29mm)	1"(25mm)	180	3"	8"
2483	$1\frac{3}{8}$ "(35mm)	$1\frac{1}{8}$ "(29mm)	180	3"	8"

**Caution:** Wear safety glasses.

Flex-Hones® are available in USA and Canada only. Flex-Hones® are manufactured by Brush Research Mfg. Co., U.S. Patent No. 3384915-3971139. Foreign patents issued or pending.

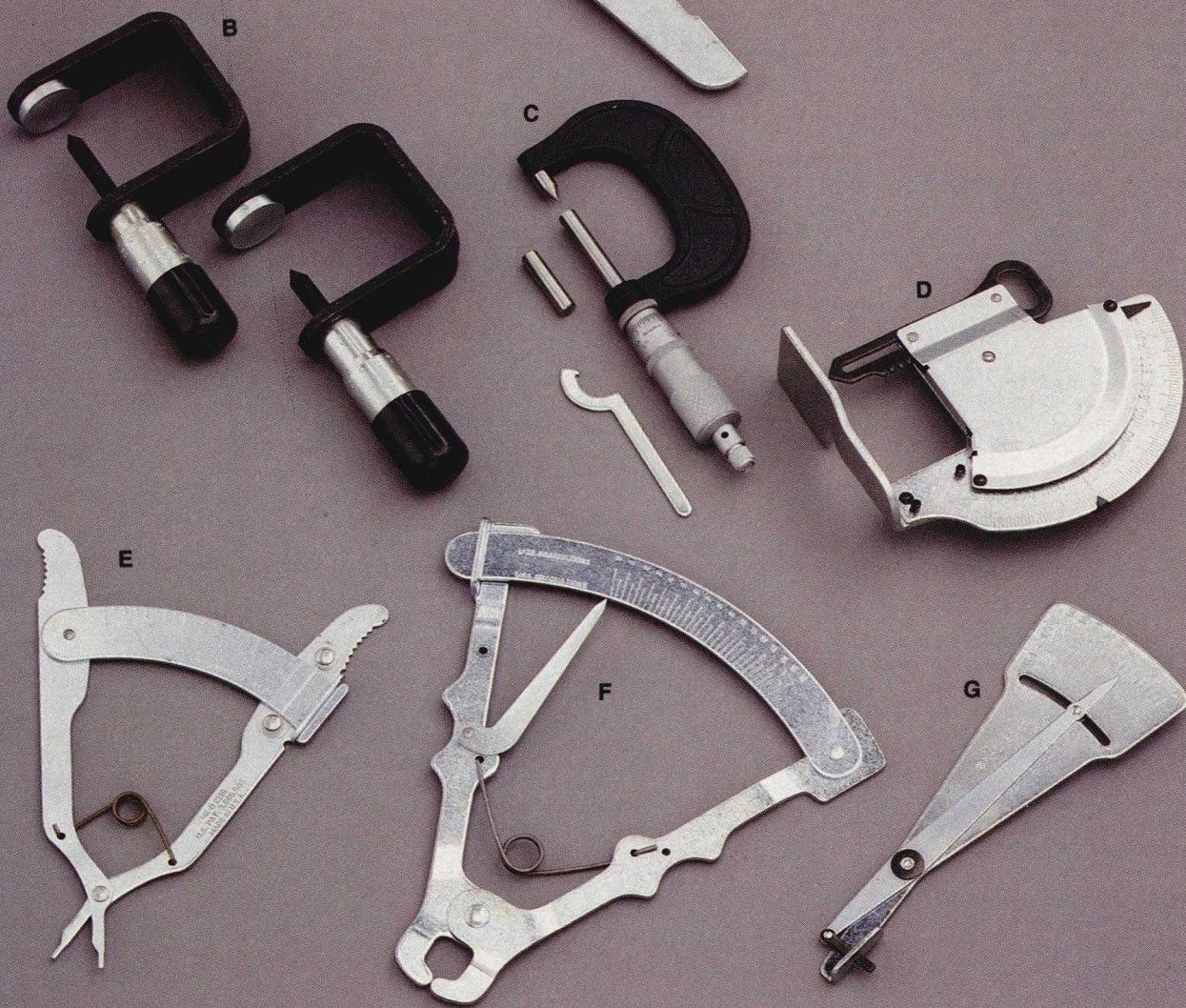
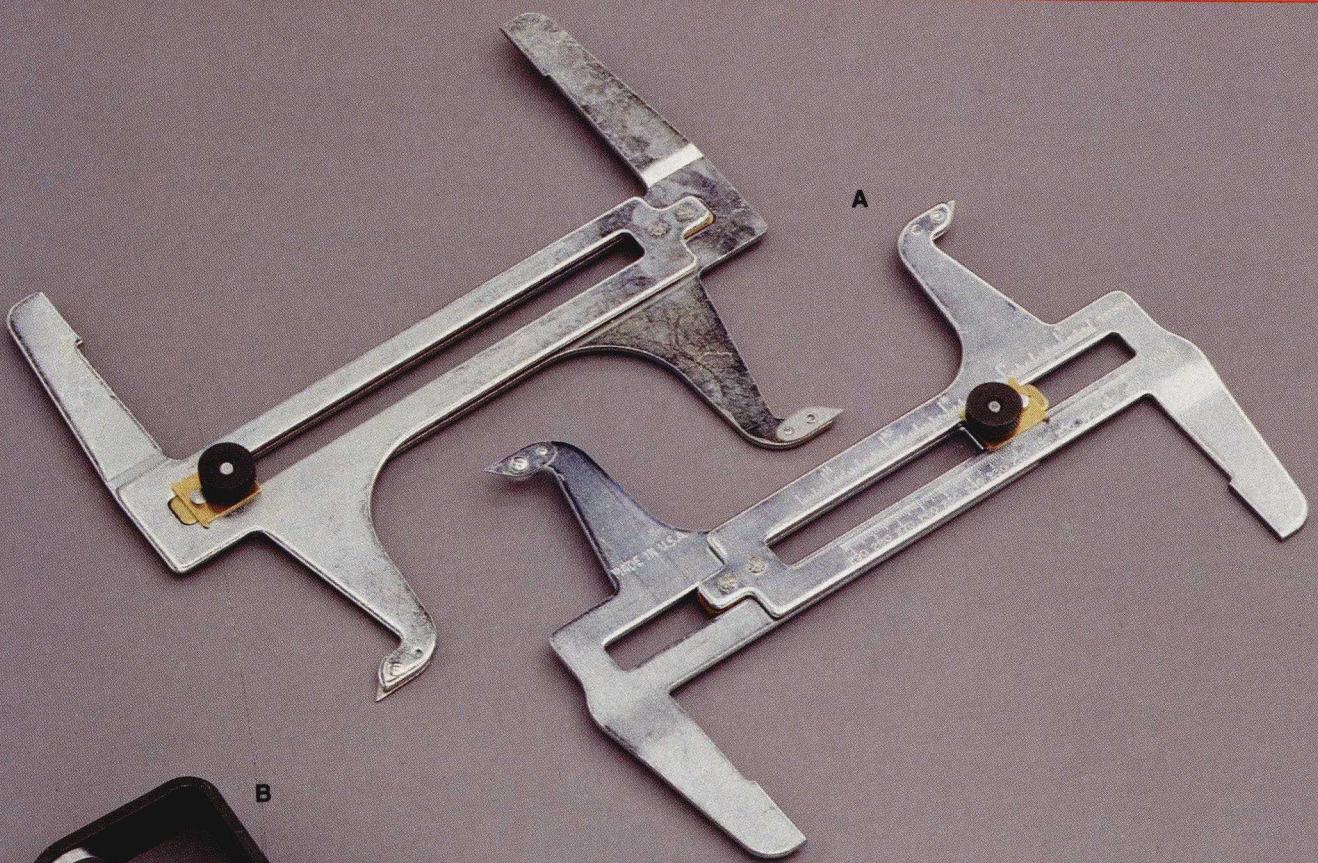
## N. Disc Brake Cylinder Flex-Hones®

Hones disc brake cylinders  $2\frac{1}{8}$ " and  $3\frac{1}{8}$ " (54mm and 79mm) in diameter. Same features as wheel cylinder Flex-Hones®

Item No.	Size	Recommended Minimum Working Dia.	Grit	Length of Beaded Section	Overall Length
2484	$2\frac{1}{2}$ " (64mm)	$2\frac{1}{8}$ "(54mm)	180	$\frac{1}{2}$ "	$5\frac{1}{2}$ "
2485	$3\frac{1}{8}$ "(79mm)	$2\frac{3}{4}$ "(70mm)	180	$\frac{1}{2}$ "	$5\frac{1}{2}$ "

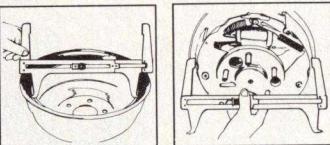
**Caution:** Wear safety glasses.

Flex-Hones® are available in USA and Canada only. Flex-Hones® are manufactured by Brush Research Mfg. Co., U.S. Patent No. 3384915-3971139. Foreign patents issued or pending.



### A. Brake Resetting Gauges

Used to set the proper clearance between brake lining and drum. Inside calipers measure drum diameters. Outside calipers transfer measurement to brake shoes. Knurled knob locks tool at measurement.



#### Item No. Description

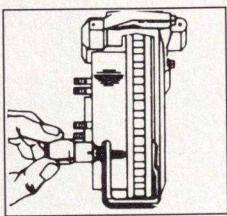
278	7 $\frac{7}{8}$ " to 14 $\frac{1}{4}$ " in diameter Calibrated in $\frac{1}{64}$ ".
2148	6 $\frac{1}{2}$ " to 11 $\frac{1}{2}$ " (165mm to 292mm) Calibrated in $\frac{1}{32}$ " and 1mm increments.

### B. Disc Brake Rotor Micrometers

Measure thickness, wear and score depth on disc brake rotors. Easy to read scale eliminates vernier interpretation.

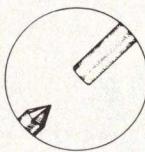
#### Item No. Description

3033	Decimal Calibrated Disc Brake Rotor Micrometer for vehicles with specifications in inches.
3080	Metric Calibrated Disc Brake Rotor Micrometer for vehicles with specifications in millimeters.



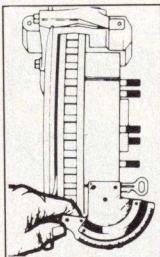
### C. 2929 Disc Brake Micrometer

Measures thickness, thickness variation, and depth of scoring on disc brake rotors from .300" to 1.300". Graduated in .001". Features friction stop, spindle lock and drop forged frame with durable gray wrinkle finish. Includes 1" standard. Serviceable product.



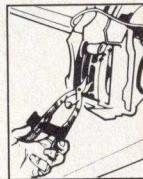
### D. 2112 Disc Brake Rotor Gauge

Measures thickness, wear and score depth on disc brake rotor in .010" increments. Place rotor between anvil and spring loaded point to take reading. Patented. Range .300 to 1.300 in .010" increments.



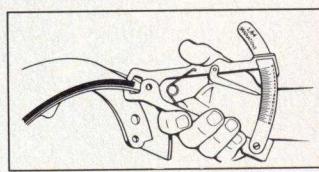
### E. 2116 Disc Brake Lining Wear Gauge

Measures brake lining remaining on bonded pads in fractions from  $\frac{1}{16}$ " to  $\frac{5}{8}$ " in  $\frac{1}{32}$ " graduations. Check without removing caliper. Patented.



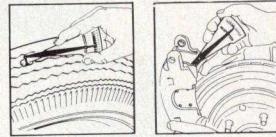
### F. 2324 Brake Lining Gauge

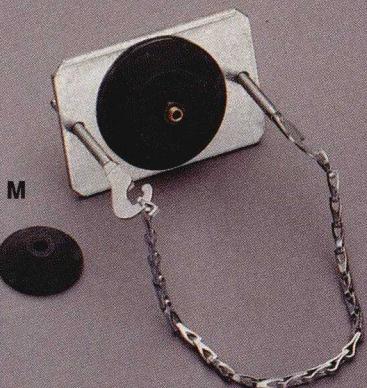
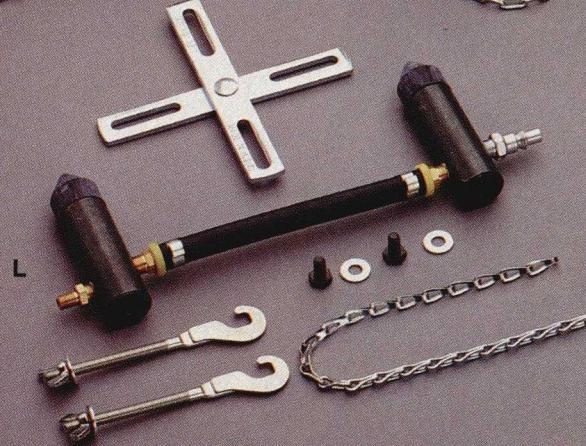
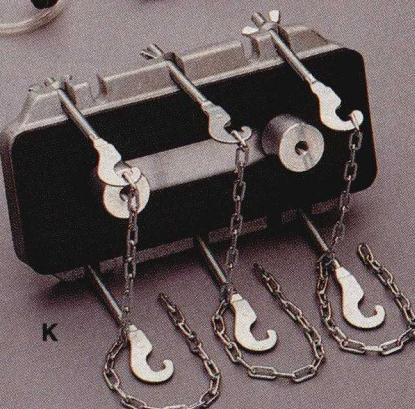
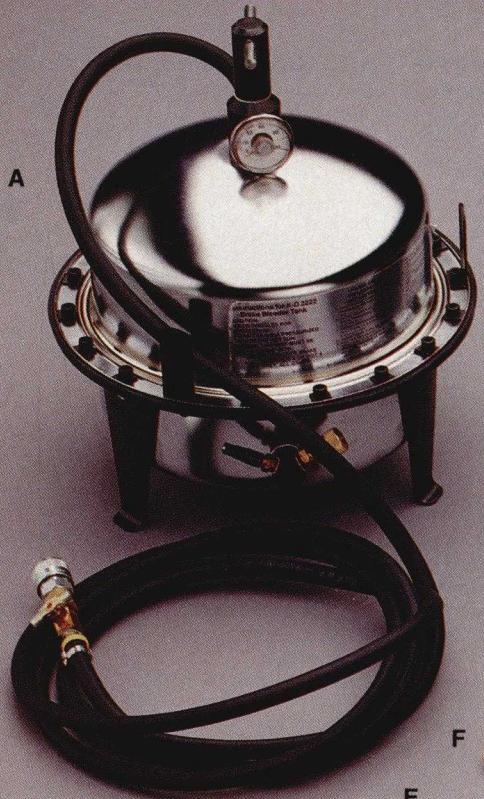
Measures brake lining from 0 to  $\frac{1}{2}$ " in  $\frac{1}{64}$ " graduations. Place gauge over brake shoe to take reading.



### G. 2326 Tire Tread and Brake Lining Gauge

Measures the amount of lining remaining on riveted and bonded drum shoes and disc brake pads. Measures tire tread depth up to  $\frac{9}{16}$ " in graduations of  $\frac{1}{64}$ ". Patent #3,670,419.





## A. 2222 Brake Bleeder Tank

Fills and pressurizes standard and power brake systems. A diaphragm separates air and fluid. Pressure relief valve prevents damage to the tank and brake systems by preventing excess air pressure. Features a quick disconnect coupler and shut-off valve. Use shut-off valve as a source for brake fluid when topping off master cylinders with brake bleeder adapter attached. 7-quart capacity. 10½" hose. Adapters available for many cars. Serviceable product.

**Caution:** For use with DOT 2, 3, 4, and 5 brake fluids only. Not for use with any other brake/hydraulic fluid.

Replacement parts available:

2222-73 Pressure Gauge

2222-75 Bleeder Hose

2222-76 Quick Disconnect

## B. 2901 Brake Bleeder Tank

Portable tank fills and pressurizes standard and power brake systems. Operates from hand pump pressure. Eliminates need for air compressor. Tank is safe; excessive pressure cannot be built up. Only a few pumps are needed to build pressure to 10 to 15 psi. Features a quick disconnect coupler and shut-off valve. Use shut-off valve as a source for brake fluid when topping off master cylinders with brake bleeder adapter attached. 4-quart capacity. 10½" hose. Adapters available for many cars. Serviceable product.

**Caution:** For use with DOT 2, 3, 4, and 5 brake fluids only. Not for use with any other brake/hydraulic fluids.

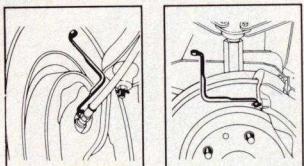
Replacement parts available:

2222-73 Pressure Gauge

2222-76 Quick Disconnect

## C. 283 Brake Bleeder Wrench

Bleeds air from brake cylinders with  $\frac{3}{8}$ " or  $\frac{5}{16}$ " hex head bleeder screws. Box end lets you see when fluid starts to flow. Fits many GM vehicles.



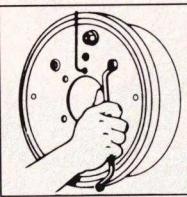
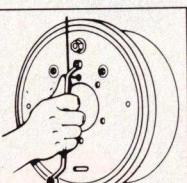
## D. Brake Bleeder Wrenches

Bleeds air from brake cylinders by loosening brake bleeder screws. Box end lets you see when fluid starts to flow. High offset design provides easy access.

### Item No. Description

286 Use on  $\frac{3}{8}$ " or  $\frac{7}{16}$ " hex head bleeder screws.

291 Use on  $\frac{1}{4}$ " or  $\frac{3}{8}$ " hex head bleeder screws.



## E. 2149 Brake Bleeder Wrench

Bleeds air from brake cylinders with  $\frac{1}{4}$ " or  $\frac{3}{8}$ " hex head bleeder screws. Offset handle and deep  $\frac{1}{4}$ " socket get into extremely tight areas.



## F. 2811 Brake Bleeder Wrench

Bleeds air from brake cylinders on GM and other late model cars with 8mm and 10mm hex fittings. Easily reaches brake bleeder screws with deep socket and offset handle.



## G. 2538 One-Man Brake Bleeder

Attach to loosened bleeder screw and pump brake pedal until all air bubbles are removed from hose. Two adapters fit most bleeder screws. Adapters prevent leakage and keep hose in place.

## H. 260 GMC Brake Bleeder Adapter

Connects bleeder tank to master cylinder on many GMC vehicles. Use with 2222 or 2901 Brake Bleeder Tanks.

## I. 3294 Brake Bleeder Adapter

Pressurizes large brake master cylinder reservoirs up to  $4\frac{1}{8}$ " x  $8\frac{3}{8}$ " found on trucks, buses and some passenger cars. Use with 2222 or 2901 Brake Bleeder Tank.

**Caution:** Wear eye protection. For intended use only.

## J. 2216 Dual Brake Bleeder Adapter

Use with 2222 or 2901 Brake Bleeder Tanks to pressurize brake systems on cars 1967 to present with master cylinder reservoirs up to  $3\frac{3}{16}$ " x  $6\frac{3}{16}$ ". Ideal for large master cylinders used on disc brake models. Gasket prevents leakage.

Replacement parts available:

2417-75 Chain

2417-76 Hook Assembly

## K. 2417 Brake Bleeder Adapter

Use with 2222 or 2901 Brake Bleeder Tanks to pressurize brake systems on cars and trucks with large dual master cylinders up to  $3\frac{1}{4}$ " x  $8\frac{3}{8}$ ". Gasket prevents leakage.

Replacement parts available:

2417-75 Chain

2417-76 Hook Assembly

## L. 2817 Brake Bleeder Adapter for Plastic Reservoirs

Pressurizes plastic reservoir brake systems on some late model GMs and Chryslers. Adjusts to fit different models. Use with 2222 and 2901 Brake Bleeder Tanks. Bore spread  $2\frac{1}{4}$ " to  $4\frac{7}{8}$ " (57mm to 124mm).

Replacement parts available:

2417-75 Chain

2417-76 Hook Assembly

## M. 3297 Universal Brake Bleeder Adapter

Pressurizes plastic reservoir brake systems on most late model domestic and import vehicles, and light duty trucks with single fill caps. Kit includes: cover plate, clamp assembly, and two different size cones for complete coverage ranging from  $\frac{9}{16}$ " to  $2\frac{3}{4}$ " in diameter. Use with 2222 or 2901 Brake Bleeder Tank.

**Caution:** Wear eye protection. For intended use only.

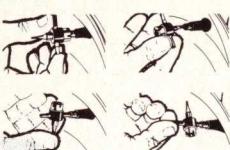


### A. 2421 Tire Pressure Gauge

Measures air pressure in tires from 20 to 120 psi (160 to 880 KPa). Easy to read scale. Includes pocket clip.

### B. 2077 Tire Valve Stem Repair Tool

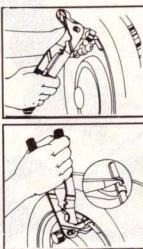
Removes and installs valve core, extracts damaged core, rethreads inside of stem, rethreads outer part of stem and can be used to install new stem in tubeless tires.



### C. 470 Wheel Weight Tool

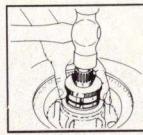
Installs, trims and removes all types of clip-on wheel weights. Hammer head and pliers for installation and removal. Cutter between handles for trimming.

**Caution:** Wear safety goggles.



### D. 2775 Hand Bearing Packer

Self-contained bearing packer saves time and can be used anywhere. No air line or grease gun required. Packs 50 to 60 bearings without refilling. Transparent, impact resistant cup allows grease level check. Use on all cage type roller and ball bearings up to 2" bore.



### E. 3292 Bearing Race Driver

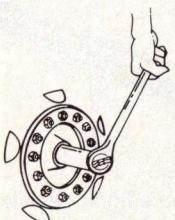
Installs bearing races from  $17/16"$  to  $27/16"$  (36mm to 62mm). Adjustable to fit races firmly for easy handling. Made of special alloy material to drive races in place without chipping or deforming. Simply place race on driver and adjust to fit by rotating shaft. Drive with hammer until firmly seated. **3292-80 Extension Handle** provides additional reach when needed.

**3292-80 Extension Handle** (available separately)

**Caution:** Wear eye protection. For intended use only.

### F. Axle Nut Sockets

For use on front wheel drive axle nuts. Extra deep to fit over spindle shaft. Black impact grade material. Use with  $1/2"$  square drive tool.



#### Item No. Description

3161	GM 30mm Deep $1/2"$ Drive Socket
3162	GM 36mm Deep $1/2"$ Drive Socket
3270	Honda and Chrysler 32mm Deep $1/2"$ Drive Socket

### G. 3287 Axle Spindle Rethreading Set

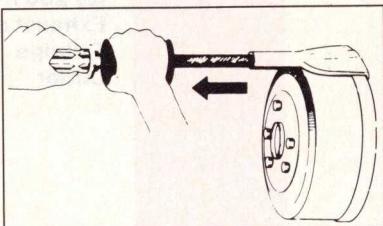
7 piece thread restoring die set. Use to clean or repair axle threads on spindles of M24 x 1.50, M24 x 2.00, M22 x 1.00, M22 x 1.50, M20 x 1.50,  $1\frac{1}{16}"$  x 20UNEF,  $3/4"$  x 20UNEF. Use with  $1\frac{1}{4}$ " socket or wrench. Dies are packaged in a blow-molded storage box.

Replacement parts available:

- 3287-71 Rethreader 20 x 1.50M Die
- 3287-72 Rethreader 22 x 1.00M Die
- 3287-73 Rethreader 22 x 1.50M Die
- 3287-74 Rethreader 24 x 1.50M Die
- 3287-75 Rethreader 24 x 2.00M Die
- 3287-76 Rethreader  $\frac{3}{4}"$  x 20 Die
- 3287-77 Rethreader  $1\frac{1}{16}"$  x 20 Die

### H. 3032 Brake Drum Puller Adapter

Unique puller design applies uniform pressure over large area of brake drum edge to minimize drum damage. Place adapter over edge of drum and use short strokes of slide hammer around edge until drum is free. For use on brake drums 8" to 17" (203mm to 432mm) in diameter. Fits slide hammer with  $1/2$ -13 UNC threads such as 2290.



### I. 3195 Ford Spindle Nut Socket

Specially designed spindle nut wrench removes Ford hi-sheer ratcheting axle nut on popular Ford F250/350 series trucks. Special features include: a centering "snout" to help locate the special axle nut, and uniquely designed lugs for maximum strength. Use on rear axles of 1985 and newer two wheel drive F250/350 Ford trucks. Use with  $1/2"$  square drive tool.

**Caution:** Wear safety goggles. Do not use with power tools.

### J. 2467 Four Wheel Drive Spindle Nut Wrench

Four-lug wrench removes spindle nuts on half ton four wheel drive vehicles. Features uniquely designed lugs for maximum strength. Use with  $1/2"$  square drive tool. Fits spindle nut on: Chevy, GMC  $1/2$ -Ton, Blazer, Bronco, Bronco II, Ranger, Ford  $1/2$ -Ton and  $3/4$ -Ton, spline type hub, IHC 1100 series, Dodge  $1/2$ -Ton.

**Caution:** Wear safety goggles. Do not use with power tools.

### K. 2770 Four Wheel Drive Spindle Nut Wrench

Six-lug wrench removes spindle nuts on four wheel drive vehicles. Fits Ford  $3/4$ -Ton 1978 and on, and GM  $3/4$ -Ton and 1-Ton 1973 and on. Features uniquely designed lugs for maximum strength. Use with  $1/2"$  square drive tool.

**Caution:** Wear safety goggles. Do not use with power tool.

### L. 3246 Four Wheel Drive Spindle Nut Wrench

Removes spindle nuts on the following vehicles: Ford F250 heavy duty axles, 1985 to current model, F350 heavy duty axle 4x4, 1985 to current models and 1987 Chevy 30 series along with DANA 501FS and model 60 monobeam axles. Features uniquely designed lugs for maximum strength. Use with  $1/2"$  square drive tool.

**Caution:** Wear safety goggles. Do not use with power tools.

### M. 3317 Four Wheel Drive Spindle Remover

Used in conjunction with a  $1/2$ -13 slide hammer to easily remove front spindle housings on domestic and imported  $1/2$  and  $3/4$  ton trucks. Simplifies repair and maintenance of front wheel drive bearings and axles. Three thread sizes:  $1\frac{5}{8}"$ -16,  $2"-16$  and M38 x 1.5.

**Caution:** Wear eye protection. For intended use only.

### N. Truck Spindle Nut Wrenches

Remove 6 PT and 8 PT spindle nuts on trucks. Turn with  $3/4"$  square drive tool.

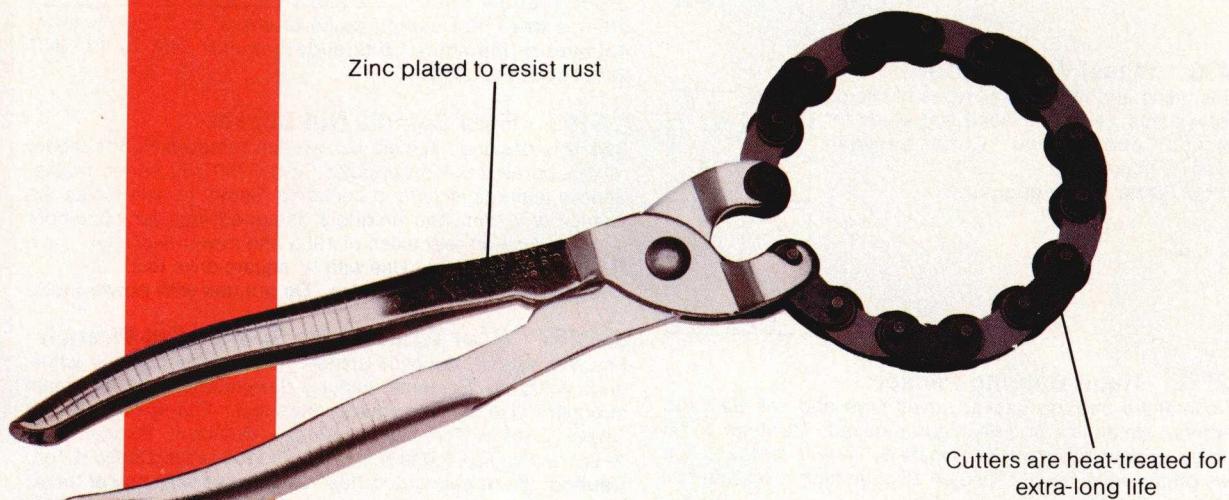
Item No.	Description	Item No.	Description
2430	$2\frac{3}{32}$ " Hex	2444	3" Hex
2431	$2\frac{1}{4}$ " Hex	2445	3" Octagon
2432	$2\frac{3}{8}$ " Hex	2448	$3\frac{1}{4}$ " Hex
2434	$2\frac{9}{16}$ " Rounded Hex (Dana)	2449	$3\frac{1}{4}$ " Octagon
2435	$2\frac{1}{2}$ " Hex	2451	$3\frac{1}{2}$ " Hex
2436	$2\frac{9}{16}$ " Rounded Hex (Dana)	2453	$3\frac{3}{4}$ " Octagon
2437	$2\frac{9}{16}$ " Hex	2455	$3\frac{13}{16}$ " Octagon
2438	$2\frac{9}{16}$ " Octagon	2456	$3\frac{7}{8}$ " Hex
2439	$2\frac{9}{16}$ " Hex	2457	$3\frac{7}{8}$ " Octagon
2440	$2\frac{3}{4}$ " Hex	2458	4" Hex
2441	$2\frac{3}{4}$ " Octagon	2459	$4\frac{1}{8}$ " Hex
2442	$2\frac{7}{8}$ " Hex		

**Caution:** Wear safety glasses. Do not use with power tools.

**KD 2031  
Exhaust and  
Tailpipe  
Cutter**

■ Long 15" cutter chain effectively cuts pipe from 3/4" to 3" so only 1/4 turn is needed to form a complete cut

■ Special link-curler design ensures accurate cutter alignment for fast cuts

**KD 2952  
Torque  
Wrench**

Turn spinner wheel for rapid run down of fasteners

Palm-pad top for comfort when applying downward pressure

Easy-to-read stamped scale

45-tooth ratchet for long life and only 8° of hand travel between index positions

Chrome finish resists rust for long life

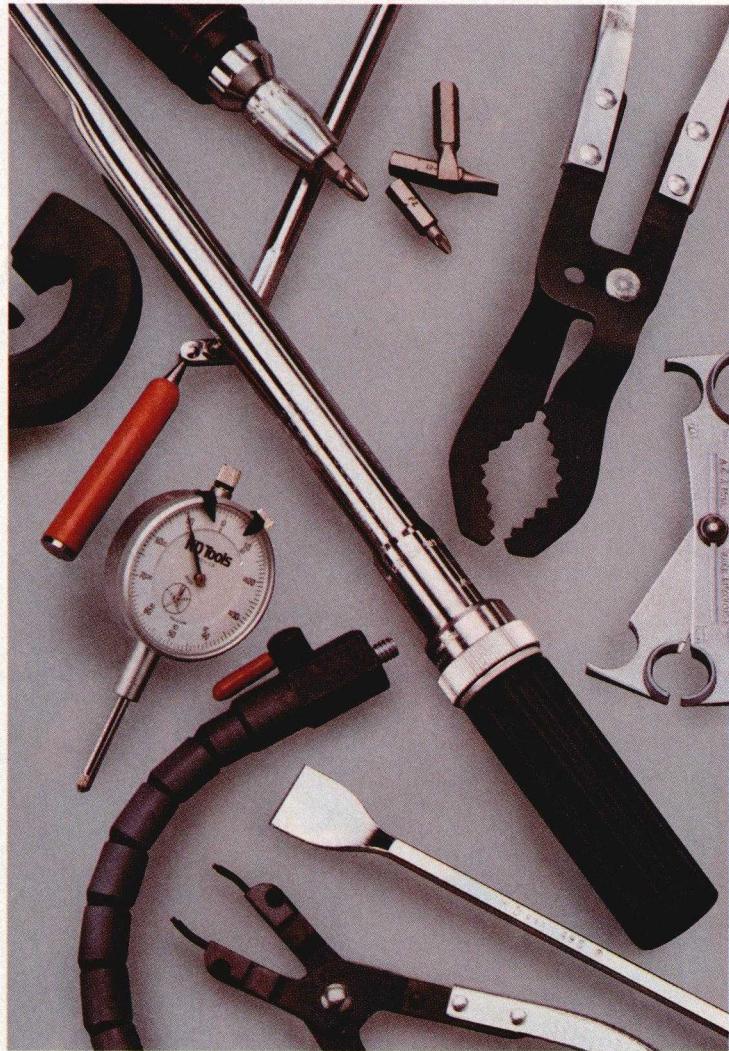
Elastomer hand grip resists damage from contact with automotive fluids

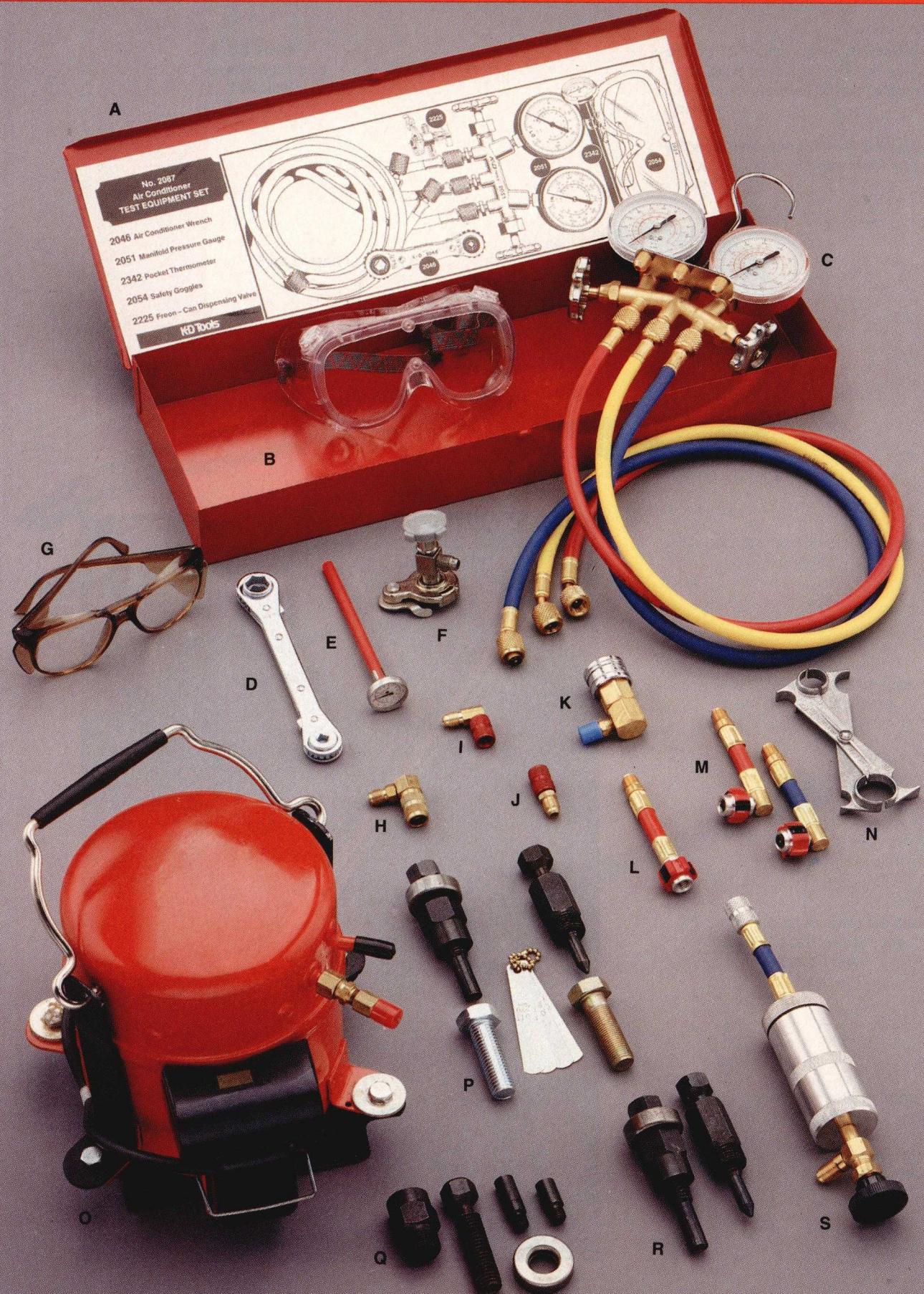
■ Lock ring prevents setting from accidental changes

■ Calibrated to ANSI and government specifications for completely accurate torquing

**K-D Tools®**

**SPECIALTY TOOLS**





**A. 2087 Air Conditioner Test Equipment Set**

Checks and recharges air conditioning systems. Includes 2051 Manifold Pressure Gauge, 2046 Air Conditioner Ratchet Wrench, 2342 Bi-Metal Thermometer, 2225 Freon Dispensing Valve, and 2054 Safety Goggles. Packed in metal box. Parts available individually.

**B. 2054 Safety Goggles**

Protects eyes from chemical splashes during air conditioning service.

**Caution:** Not impact resistant. Use for chemical and anti-splash protection only.

**C. 2051 Manifold Pressure Gauge**

Tests and recharges air conditioning systems. High pressure gauge reads 0 - 500 psi, low pressure gauge reads 0 - 150 psi, and 0 - 30" Hg. Includes three color coded hoses (red hose 36", blue hose 36", yellow hose 60"). Valves control flow of refrigerant through gauge into system. Serviceable product.

Replacement parts available:

- 2051-73 High Pressure Gauge
- 2051-74 Low Pressure Gauge
- 2051-80 36" Blue Hose Assembly
- 2051-81 36" Red Hose Assembly
- 2051-82 60" Yellow Hose Assembly

**D. 2046 Air Conditioner Ratchet Wrench**

Four sizes in one wrench to fit most compressor service valves, cap fittings, and charging bottles. Square socket size  $\frac{3}{16}$ " and  $\frac{1}{4}$ ". Hex socket sizes  $\frac{1}{2}$ " and  $\frac{5}{16}$ ". Reverse direction with flip of lever.

**E. 2342 Bi-Metal Thermometer**

Accurately measures air conditioning system temperatures from 0 to 220° F. Checks outlet, evaporator, and condenser temperatures. Includes protective plastic sleeve and pocket clip. Impact resistant magnifying lens.

**F. 2225 Freon Dispensing Valve**

Dispenses freon from one pound cans. Locks securely on flat top or screw top can. Features anti-blowback valve.

**G. 3275 Safety Glasses**

Specially designed, OSHA approved glasses have coated plastic lenses to help prevent scratches, and top and side shields to assist in preventing eye injury to the wearer.

**Caution:** Will not protect against ultraviolet radiation or weld flash.

**H. 3201 90° Ford Fitting Adapter**

Used on high side of 1977-80 Ford Systems.  $\frac{1}{4}$ " Male Flare with safety valve core x  $\frac{1}{8}$ " Female Flare.

**I. 3202 90° Ford and GM Fitting Adapter**

For late GM and Ford high side fitting.  $\frac{1}{4}$ " Male Flare x  $\frac{3}{16}$ " Female Flare.

**J. 3203 Straight Fitting Adapter**

For late GM and Ford high side fitting.  $\frac{1}{4}$ " Male Flare x  $\frac{3}{16}$ " Female Flare (no valve core).

**K. 3313 Quick-Disconnect GM High Side Large Bore Fitting**

Easy to use. Just attach the fitting to the high side air conditioning hose, slide the quick-disconnect sleeve back and attach to the service port. For 1988 to current GM models.

**L. 2409 Flexible Adapter**

Connects high pressure side service port on late model GM ('76 to current) and 1981 Ford systems to standard manifold pressure gauge hoses. Female connector,  $\frac{3}{8}$ "-24 UNF, fits service port. Male flare fitting ( $\frac{1}{4}$ ") fits manifold hose. Bends to fit in tight places. One-way valve prevents accidental blow-back.

**M. Ford 90° High and Low Side Adapter**

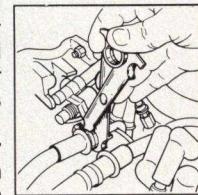
These 90° flexible adapters with "kool grip" knobs make it possible to connect standard manifold pressure gauge hose to Ford high/low side service ports on late model Escort/Lynx and Tempo/Topaz, including those with limited access.

Item No.	Description
3277	Ford 90° High Side Adapter
3278	Ford 90° Low Side Adapter

**N. 3290 Ford A/C and Fuel Line Spring Lock Coupling Tool**

Most Ford vehicles are equipped with spring lock couplings on fuel and air conditioning lines. Necessary tool releases locking mechanism on all four sizes; A, B, C and D. Four separate sizes referenced: A -  $\frac{3}{4}$ ", B -  $\frac{5}{8}$ ", C -  $\frac{1}{2}$ ", D -  $\frac{3}{8}$ ".

**Caution:** Wear eye protection. For intended use only. Do not use with engine running. Release system pressure before disconnecting coupling.

**O. 2212 Rotary Vane Vacuum Pump**

Removes moisture from air conditioning systems. Draws 29.9" of vacuum at sea level. Draws within .5" of barometric pressure after five minutes of operation at any altitude. Serviceable product. Uses 115 VAC, 60 Hz, 2 Amps.

**P. 2016 Clutch Service Kit**

Removes and installs GM compressor clutches. Includes feeler gauges for setting proper spacing of clutch plate and pulley. Use on all A-6, and 1975-1979 R-4 compressors.

Replacement part available:

- 2016-78 GM Clutch Remover

**Q. 3340 GM Clutch Plate Remover and Installer for GM DA6 and V5 Compressor Clutches**

Removes and installs clutches on GM air conditioning DA6 and V5 compressor clutches. Removes clutch plate without removing retaining ring. Installs clutch plate with compressor on car.

**R. 2416 GM Clutch Plate Remover and Installer**

Removes and installs clutches on GM air conditioning compressors. Removes clutch plate without removing retaining ring. Installs clutch plate with compressor on car. Use on all A-6, and 1975-1979 R-4 compressors.

**S. 2697 Compressor Oil Injector**

Adds compressor oil to air conditioning systems. Use when adding refrigerant. Works in conjunction with manifold gauge 2051. Capacity 2 ounces. Has  $\frac{7}{16}$ "-20 UNF thread.



**A. 424 CV Joint Boot Clamp Pliers**

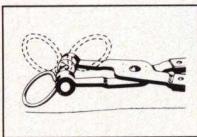
Hose clamp installer for easy installation of Perma-Quick type hose clamps on fuel filters, water pumps, other cooling system hoses, and CV joint boot clamps. Will work on late model GM "Super Boot". Jaws crimp the clamp. Includes four 1/2" replacement clamps.

Replacement part available:

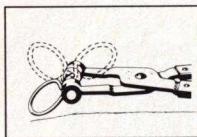
**424-70** Perma-Quick Clamps (pack of 5)

**B. 428 Hose Clamp Pliers**

Removes and installs Corbin hose clamps. Slotted jaws securely hold all size hose clamps. Jaws close fully to expand small clamps. Jaws swivel to grip at any angle. Clamps not included.

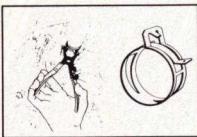
**C. 429 Hose Clamp Pliers**

Pliers latch in position to securely hold Corbin clamp when expanded. Makes removing and installing ring type clamps easy. Slotted jaws swivel to grip at any angle. Clamps not included.

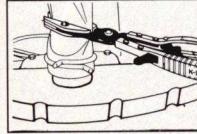
**D. 3252 Flat Band Hose Clamp Pliers**

Designed to remove and install newer style flat band clamps used on various hose assemblies. For use on Ford, GM, and some imports.

**Caution: Wear eye protection.**

**E. 421 Radiator Hose Shark Tooth Pliers**

Firmly grips radiator and heater hoses for easy removal and installation. Securely grips hose and provides leverage to twist hose free.

**F. 145 Hose Pinch-Off Pliers**

Eliminates need to drain system when servicing cooling system. Pliers squeeze hoses shut. Jaws swivel for parallel clamping. Automatic locking ratchet. Can be used to pinch off some emission system hoses.

**Note: Do not use on wire reinforced hose.**

**G. 409 Radiator Temperature Gauge**

Measures radiator water temperature from 120° to 270° F (50° to 132° C). Measures in 10° increments.

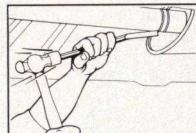
**H. 2117 Spot-Check Anti-Freeze Tester**

Checks coolant protection from -40° F to +271° F. Number of balls floating determines reading. Graduated to indicate percentage of anti-freeze in coolant and safety range. Includes pocket protector with dealer sales message.

**I. 2072 Muffler and Tailpipe Chisel**

Cuts apart muffler and tailpipe connections. Strike with hammer to separate pipes.

**Caution: Wear safety goggles**

**J. 2073 Muffler and Tailpipe Chisel**

Cuts through rusted, corroded tailpipe connections. Insert between tailpipe and muffler. Three bladed cutting edge splits open outside pipe.

**Caution: Wear safety goggles.**

**K. Exhaust and Tailpipe Expanders**

Flare, shape, and expand tailpipes to assure a tight fit and prevent exhaust leaks. Turn handle to adjust expander to diameter of pipe. Place on end of pipe and drive with hammer. Remove and readjust - do not adjust while in pipe. Repeat hammering until desired shape and size is reached.

**Caution: Wear safety goggles.**

**Item No. Description**

<b>2070</b>	For pipes 1 1/16" to 2" (36.5mm to 50mm).
<b>2071</b>	For pipes 1 13/16" to 2 1/2" (46mm to 63.5mm).
<b>2269</b>	For pipes 2 5/8" to 3 1/4" (60mm to 77mm).

Replacement parts avialable:

**2071-72** Fingers

**2071-73** Handle

**2071-75** Spring

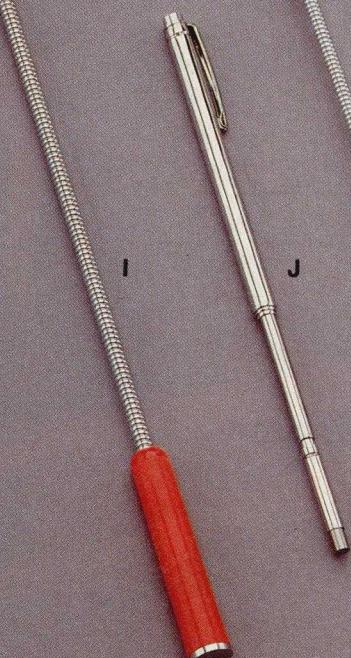
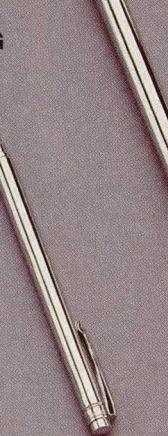
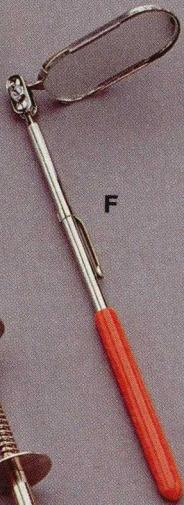
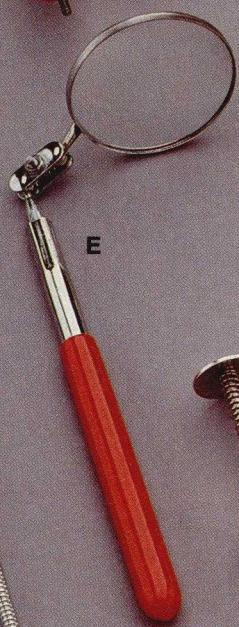
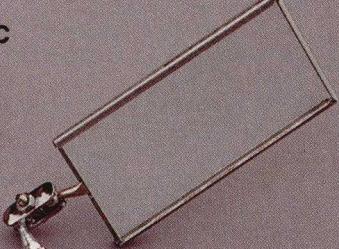
**L. 2031 Exhaust and Tailpipe Cutter**

Cuts pipes 3/4" to 3" (19mm to 76mm) in diameter. 15 blades effectively cut pipe so only 1/4 turn is needed for complete cut. Works in hard-to-reach areas. Keep well oiled. Will not cut double-wall pipe. Patented. Serviceable product.

**Caution: Wear safety goggles.**

Replacement part available:

**2031-82** Cutter Chain Assembly



### A. 2520 Vibro Engraver

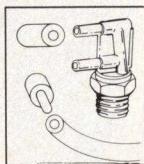
Used to permanently identify valuables. Carbide tip engraves metal, plastic, wood, glass and other surfaces. Variable speed knob controls depth of engraving. Operates on 115 Volt AC.

### B. Vacuum Hose Plug Kits

For use when disconnecting vacuum lines and fittings. These color coded, soft pliable plugs allow for fast and error free replacement of hoses. Includes sizes  $\frac{1}{8}$ " to  $\frac{5}{16}$ " packaged in a reusable plastic box for convenient storage.

#### Item No. Description

3251	28 Piece Vacuum Hose Plug Kit
3260	14 Piece Vacuum Hose Plug Kit



### C. 3352 Hose Pinch-Off Tool

Used to pinch off vacuum hose and some fuel line hose up to  $\frac{3}{8}$ " in diameter. Contains a locking mechanism between the handles that allows the tool to remain in a closed position without holding onto it. Includes set of three per package.

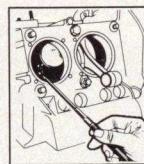
### D. 2108 Telescoping Mirror

Inspects hidden areas.  $2\frac{1}{4}$ " x  $3\frac{1}{2}$ " rectangular mirror swivels to almost any position. Closed length  $11\frac{1}{4}$ " extends to  $15\frac{1}{4}$ ". Comfortable vinyl grip.



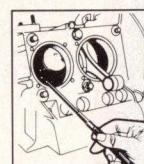
### E. 2109 Telescoping Mirror

Inspects hidden areas.  $2\frac{1}{4}$ " diameter mirror swivels to almost any position. Closed length 10", extends to 14". Comfortable vinyl grip.



### F. 2110 Oval Inspection Mirror

Head swivels 360° on 2 axis. Handy pocket clip. Comfortable vinyl grip.



### G. 2840 $1\frac{1}{4}$ " Round Magnifying Mirror with 25 Pocket Clip and Telescoping Handle

Perfect for inspecting hidden areas. The mirror swivels to almost any position and telescopes up to 17" in overall length.

### H. 2281 Telescoping Magnetic Retrieving Tool

Extends from  $16\frac{3}{4}$ " to  $26\frac{3}{4}$ " to pick up hard-to-reach ferrous metal parts and tools. Rotate magnet to any position. Comfortable vinyl grip.

### I. 1711 Magnetic Pick-Up Tool

Easily retrieves small, ferrous metal parts. Powerful, permanent magnet. Shaft flexes to go around corners. Nickel-plated. Easy-grip knurled handle. 18" long.

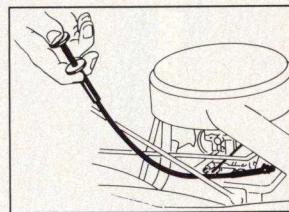
### J. 2593 Telescoping Magnetic Pick-Up Tool

Extends up to 18" to pick up hard-to-reach ferrous metal parts or tools. Includes pocket clip.

### K. Flexible Retrieving Tools

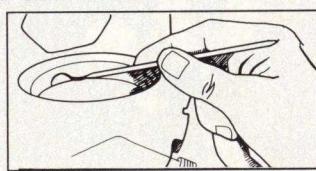
Retrieve small objects from hard-to-reach places. Push button to open claws. Release to grab.

Item No.	Description
2391	23" long flexible shaft
2844	13 $\frac{1}{2}$ " long flexible shaft



### L. 2554 "O" Ring and Seal Pick

Removes and installs "O" rings and small oil seals. Hardened tip keeps a sharp point. Ideal for transmission, power steering pump, disc brake, and air conditioning repairs.



### M. 3121 Hook and Pick Set

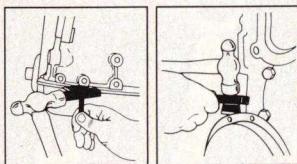
5-piece Hook and Pick Set includes 5" aluminum handle, knurled for a sure grip. Set also includes four heat-treated, high-carbon steel picks: "O"-ring pick, 90 degree, straight and hook. Picks are used to pull "O"-rings, seals, cotter pins, and brushes more quickly and easily.



### A. 3335 RTV Gasket Cutter

Designed to remove oil pans, valve covers, and other components sealed with liquid type gasket materials.

Replacement part available:  
3335-80 Blades (package of 2)

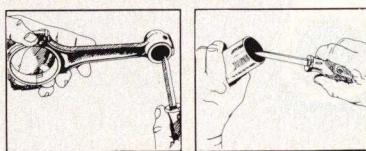


### B. 485 Gasket Scraper

Scrapes surfaces clean for installing new gaskets. Use before installing water pump, thermostat, cylinder head, crankcase and timing chain cover gaskets. Forged steel for rugged service. Comfort grip handle. Overall length 10½", 1" blade.

### C. 2567 Scraper and Deburring Tool

Removes sharp edges from drilled or tapped holes. Scrapes bearings and gasket surfaces. Triangular shape provides three cutting edges.



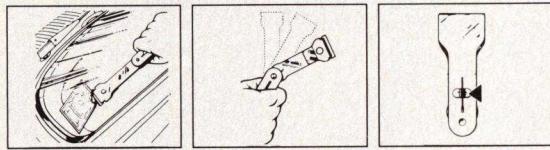
### D. 2106 All-Purpose Scraper and Sticker Remover

Removes inspection stickers, dealer price labels, and paint from glass. Locks into three operating positions to reach hard-to-get-at slanting windshields. Cutting edge folds into handle for safe storage. Uses single edge razor blades.

**Caution: Not for use on plastic coated windshields.**

Replacement parts available:

2106-75 Replacement Blades (pkg. of 5)



### E. 2425 1¼" Scraper

Stiff tempered steel blade ideal for scraping dirt, carbon, and paint and for applying putty. Blade is ground to a mirror finish.

### F. 2426 3" Scraper

Flexible steel blade ideal for applying putty and light scraping. Blade ground to a mirror finish.

### G. 2977 Pocket Magnet and Scriber

Sharp point scribes markings on metal, and permanent magnet retrieves small dropped parts. Tip reverses and stores in body for safety. Includes pocket clip.

### H. Scribes

Sharp, tempered point scribes metal; hooked end removes "O"-rings, seals, and gaskets. Scribes are 8" long.

#### Item No. Description

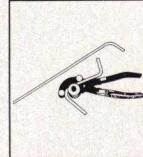
2978	Unhardened hook.
2979	Hardened 90° hook.

### I. 2517 Tubing Bender

Bends ⅜", ¼", ⅕", and ⅝" diameter tubing without kinking. Place tubing in groove and turn handle to bend. Heavy duty construction provides years of service.

### J. 2189 Tubing Bender

Bends ⅜", ¼", ⅕", and ⅝" copper and steel tubing. Makes tight bends without collapsing tubing. Roller adapters included for each tubing size. Place tubing between adapter and studs. Squeeze handles to bend.

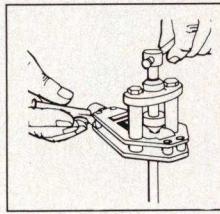


### K. 2190 Portable Double Flaring Tool

Makes single and double SAE 45° flares in ⅜", ¼", ⅕", and ⅝" tubing. Forms precise flares in copper, aluminum, and steel tubing. Adapters provided for double flares. Serviceable product.

Replacement part available:

2190-78 Double Flare Nut Adapter Kit  
4 pc. Includes ⅜", ¼", ⅕", and ⅝".



### L. 2199 Double Flaring Tool Set

Precisely flares tubing to .040 wall thickness to SAE 45° flares. The hardened bar assembly clamps five tubing sizes: ⅜", ¼", ⅕", ⅝", and ⅛". Includes corresponding adapters for forming double flares. Packaged in a sturdy case with full instructions. Not for use on steel tubing.

Replacement parts available:

2190-78 Double Flare Nut Adapter Kit, 4 pc.  
Includes ⅜", ¼", ⅕", ⅝", ⅛".

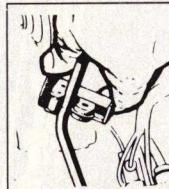
2199-85 ½" Flaring Tool Adapter

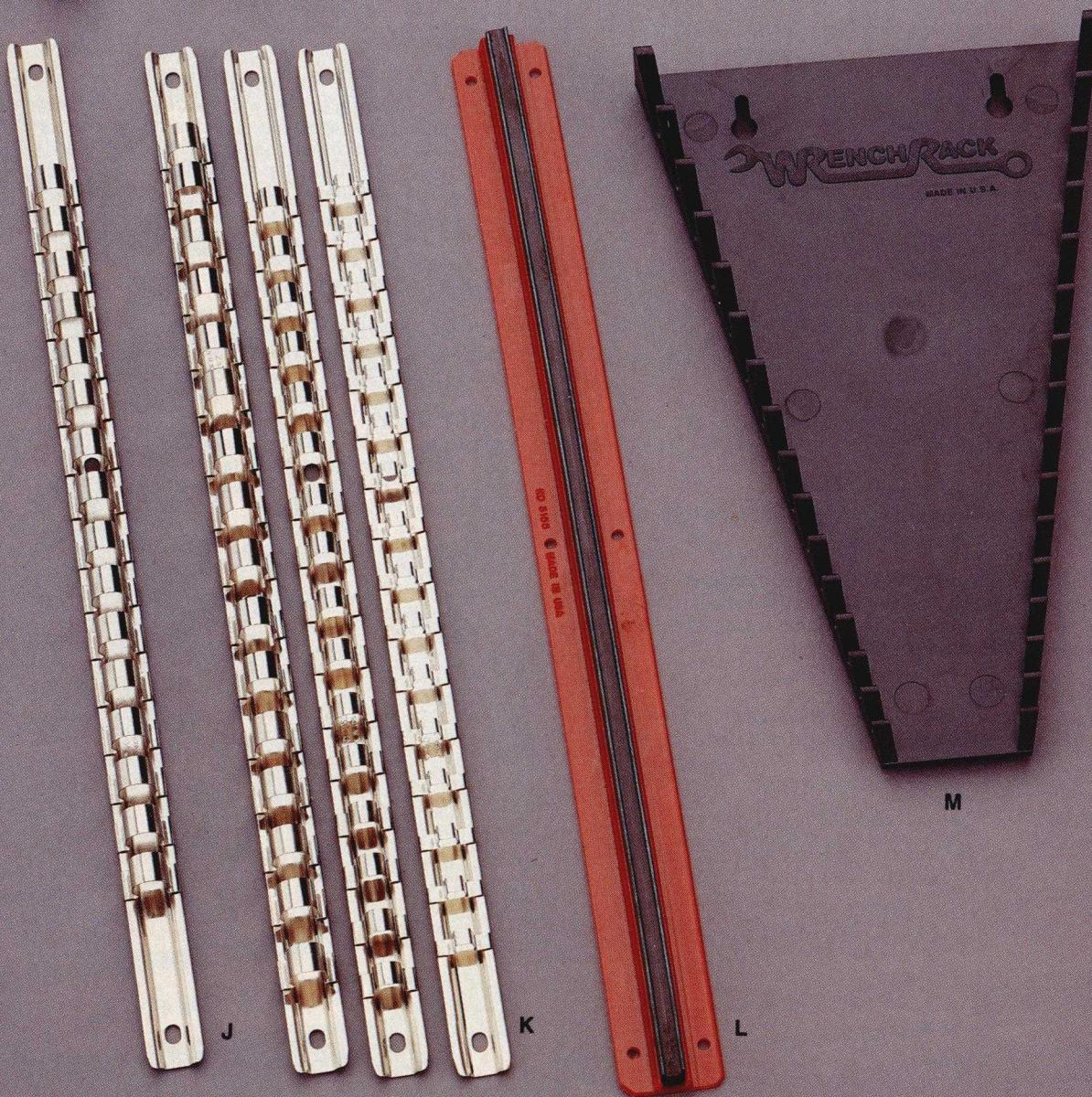
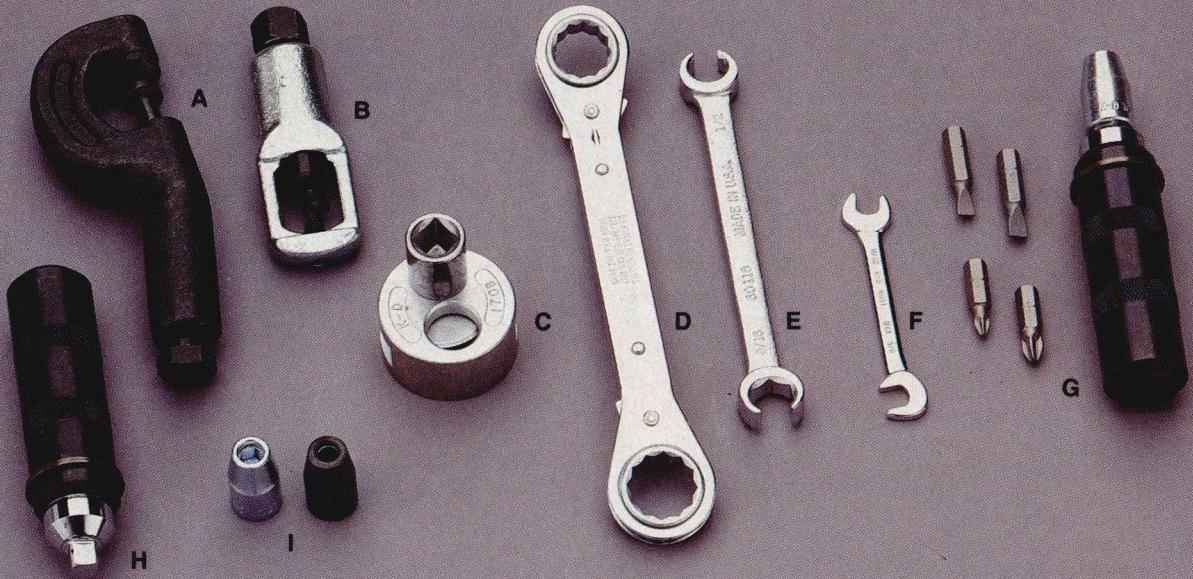
### M. 2198 Flaring Tool

Accurately flares seven tubing sizes to SAE 45° flares. Sizes: ⅜", ¼", ⅕", ⅝", ⅛", ⅗", ⅔". Not for use on steel tubing.

### N. 2107 Mini Tubing Cutter

Cuts tubing from ⅛" to ⅝" in diameter. Two rollers provide burr-free cut. Cuts thin wall steel, plastic, copper, and brass tubing. Small size fits into tight areas.





### A. 715 Universal Nut Cracker

Splits most stubborn nuts  $\frac{7}{16}$ " (11mm) through  $\frac{3}{4}$ " (19mm) across the flats. Works in channels not accessible to other tools. Parallel action of pusher cracks nuts without damaging bolt threads. Chisel rotates 360° to line up parallel to bolt. Tighten screw until nut splits. Rugged drop forged frame. 6 $\frac{3}{4}$ " long. Do not use on heat treated nuts. Serviceable product.

**Caution:** Wear safety goggles.

Replacement parts available:

715-72	Screw
715-73	Steel Ball
715-74	Chisel
715-75	Plunger



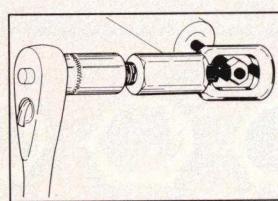
### B. 710 Nut Cracker

Splits most stubborn nuts  $\frac{7}{16}$ " (11mm) through  $\frac{3}{4}$ " (19mm) across the flats. Ideal for work on shocks, mufflers and tailpipes. Hardened steel chisel driven by large steel screw. Tightened screw until nut splits. 4" long. Do not use on heat treated nuts.

**Caution:** Wear eye protection.

### C. 1708 Stud Extractor

Removes  $\frac{1}{4}$ " (6mm) to  $\frac{3}{4}$ " (19mm) studs. Cam wheel grips within  $\frac{9}{32}$ " of flat surface to hold stud. Drive socket will not bind.



### D. Offset Ratcheting Wrenches

The 25° offset handle and ratcheting box end combine the speed of a ratchet wrench with the convenience of a box wrench and the access of an offset wrench. Use to quickly turn hard-to-reach automotive fasteners. Reverse direction by flipping lever. Openings are broached for accuracy; handles are chrome-plated for durability.

#### Item No. Description

2871	1/4" x $\frac{5}{16}$ " 12 point
2873	$\frac{3}{8}$ " x $\frac{7}{16}$ " 12 point
2875	$\frac{1}{2}$ " x $\frac{9}{16}$ " 12 point
2876	$\frac{5}{8}$ " x $\frac{11}{16}$ " 12 point
2878	$\frac{3}{4}$ " x $\frac{7}{8}$ " 12 point
2883	7mm x 8mm 6 point
2884	9mm x 10mm 6 point
2885	11mm x 12mm 6 point
2886	13mm x 14mm 6 point
2887	15mm x 17mm 12 point
2888	16mm x 18mm 12 point
2889	19mm x 21mm 12 point

### E. Flare Nut Wrenches

Prevents damage to flare nuts and other soft metal fittings. Forged from alloy steel. Precision heat treated and chrome plated.

#### Item No. Description

2193	$\frac{3}{8}$ " x $\frac{7}{16}$ "
2194	$\frac{1}{2}$ " x $\frac{9}{16}$ "
2195	$\frac{5}{8}$ " x $\frac{11}{16}$ "

### F. Miniature Wrenches

Loosen and tighten small nuts from  $\frac{3}{16}$ " to  $\frac{3}{8}$ " with these miniature wrenches. Excellent for use on distributors and small electrical components. Chrome-plated wrenches feature offset heads for easy access. Heads offset at 90° and 15°.

#### Item No. Description

4081	$\frac{13}{64}$ " x $\frac{3}{16}$ "
4082	$\frac{15}{64}$ " x $\frac{7}{32}$ "
4083	$\frac{17}{64}$ " x $\frac{1}{4}$ "
4084	$\frac{5}{16}$ " x $\frac{9}{32}$ "
4085	$\frac{7}{32}$ " x $\frac{11}{16}$ "
4086	$\frac{9}{32}$ " x $\frac{11}{32}$ "
4087	$\frac{11}{32}$ " x $\frac{3}{8}$ "

### G. 1140 SAE Impact Driver Set

Frees frozen bolts and screws. Twist tool in direction of rotation and hold while striking with hammer to loosen screws and bolts. Reverse action to tighten bolts. Standard  $\frac{3}{8}$ " square drive. Four bits included with set: No. 2 Phillips, No. 3 Phillips,  $\frac{5}{16}$ " Slotted and  $\frac{9}{32}$ " Slotted. Includes  $\frac{3}{8}$ " square drive to  $\frac{5}{16}$ " hex adapter for bits. Replacement bits available individually. Serviceable product.

**Caution:** Wear safety goggles.



### H. 1141 Hand Impact Driver

Twist tool in direction of rotation and hold. Strike with hammer to loosen bolts and screws. Reversible action. Serviceable product.

**Caution:** Wear safety goggles.

### I. 3/8" Square Drive Adapters

Adapt hex bits to  $\frac{3}{8}$ " square drive.

#### Item No. Description

2061	$\frac{5}{16}$ " bits
2674	$\frac{1}{4}$ " hex bits

### J. Socket Holder Racks

Socket holder racks available individually.

#### Item No. Description

2530	$\frac{1}{4}$ " sockets
2531	$\frac{3}{8}$ " sockets
2532	$\frac{1}{2}$ " sockets

### K. 2533 Socket Holder Rack Set

Neatly stores  $\frac{1}{4}$ ",  $\frac{3}{8}$ ", and  $\frac{1}{2}$ " square drive sockets. Mount on wall or in tool box. Each holder holds 16 sockets on movable clips. All steel construction.

### L. "Mag-Rail" Magnetic Tool Holders

Neatly stores sockets, screwdrivers or other tools. Magnetic rail can be mounted on wall or in tool box using pre-drilled holes.

#### Item No. Description

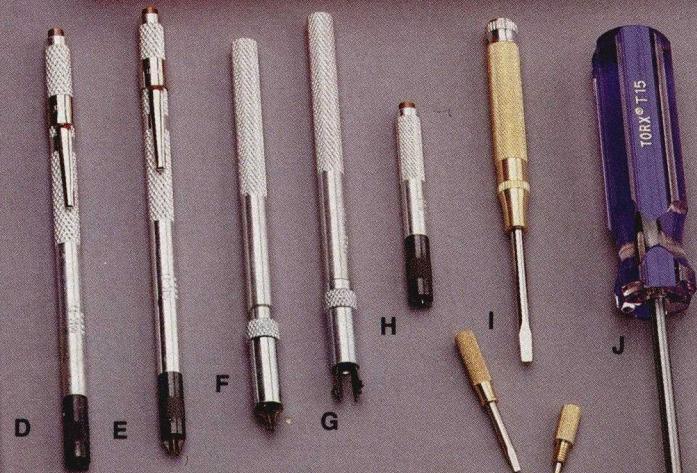
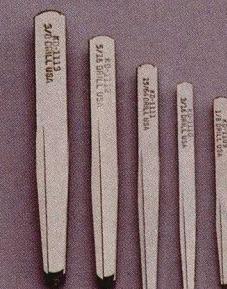
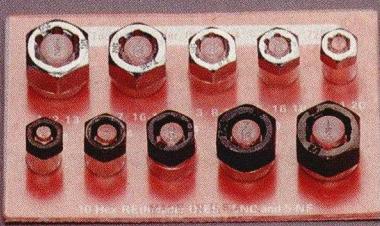
3154	10" length
3155	17" length

### M. Wrench Racks

Neatly stores wrenches.

#### Item No. Description

3361	9 pc. Wrench Rack
3362	12 pc. Wrench Rack
3363	15 pc. Wrench Rack



### A. External Thread Restorer Files

Restore external threads by filing. Overlap several good threads with file and file damaged ones. Files right and left hand threads. Long lasting, fast cutting teeth.

#### Item No. Description

- |             |  |
|-------------|--|
| <b>2228</b> | <b>Metric Thread Restorer File</b> – Pitch sizes: 0.75mm, 1.00mm, 1.25mm, 1.50mm, 1.75mm, 2.00mm, 2.50mm, 3.00mm |
| <b>2229</b> | <b>SAE Thread Restorer File</b> – Pitch sizes: 11, 12, 13, 14, 16, 18, 20, 24                                    |
| <b>2249</b> | <b>SAE Thread Restorer File</b> – Pitch sizes: 9, 10, 12, 16, 20, 27, 28, 32                                     |

### B. 3287 Axle Spindle Rethreading Set

7 piece thread restoring die set. Use to clean or repair axle threads on spindles of M24 x 1.50, M24 x 2.00, M22 x 1.00, M22 x 1.50, M20 x 1.50,  $\frac{13}{16}$ " x 20UNEF,  $\frac{3}{4}$ " x 20UNEF. Use with  $\frac{1}{4}$ " socket or wrench. Dies are packaged in a blow molded storage box.

**Caution: Wear eye protection. Do not use with power tools. For intended use only.**

Replacement parts available:

- |                |                                       |
|----------------|---------------------------------------|
| <b>3287-71</b> | Rethreader 20 x 1.50mm Die            |
| <b>3287-72</b> | Rethreader 22 x 1.00mm Die            |
| <b>3287-73</b> | Rethreader 22 x 1.50mm Die            |
| <b>3287-74</b> | Rethreader 24 x 1.50mm Die            |
| <b>3287-75</b> | Rethreader 24 x 2.00mm Die            |
| <b>3287-76</b> | Rethreader $\frac{3}{4}$ " x 20 Die   |
| <b>3287-77</b> | Rethreader $\frac{13}{16}$ " x 20 Die |

### C. 725 Rethreader Die Set

Restores threads on  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{7}{16}$ ", and  $\frac{1}{2}$ " diameter studs. Black dies cut fine (UNF) threads. Zinc coated dies cut coarse (UNC) threads. Start die on threads and turn with wrench. Use cutting oil.

### D. 2282 Slotted Screw Starter

Holds screw securely for hard-to-reach areas. Twist bit to hold screw for easy starting. Strong magnet on opposite end picks up dropped parts. Includes pocket clip.  $5\frac{5}{8}$ " long.

### E. 2283 Phillips Screw Starter

Twist bit to firmly hold Phillips screws for easy starting. Reaches hard-to-get-at areas. Strong magnet on opposite end retrieves dropped parts. Includes pocket clip. Length  $5\frac{5}{8}$ ".

### F. 3279 Torx® Screw Starter

Uses spring action to assist in starting various fasteners. Features an aluminum handle to reach most recessed head screws. For use with Torx®, square, hex, and clutch designs.

### G. 3274 Nut Starter

Tool assists in starting nuts on fastener with thread sizes of  $\frac{3}{32}$ " to  $\frac{5}{16}$ ". This tool works on nuts made of plastic, aluminum, brass, stainless steel, and steel.

### H. 2152 Miniature Screw Starter

Starts slotted screws in hard-to-reach places. Slotted end holds screw securely. Magnetic end for retrieval of dropped parts. Overall length  $2\frac{9}{16}$ ".

### I. 5 3-in-1 Screwdriver

Two miniature screwdrivers stored inside brass handle of third screwdriver. Hardened blades. Blade width: .140", .085", .050".

### J. 2690 T-15 Torx® Screwdriver

Removes and installs popular T-15 Torx. Fits Torx screws used on headlights, exterior trim, taillights, turn signal lights, and instrument panel. Comfortable plastic grip handle.

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

### K. 3153 Adjust E-Z Long Reach Torx Screwdriver

Extra long 17" blade. Loosens, removes and installs T-15 Torx fasteners during head light adjustment on late model cars. Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

### L. 2675 Torx® Bit Set

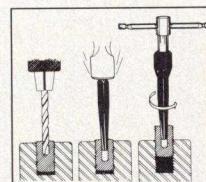
Six popular size bits T-15 to T-50 with two  $\frac{3}{8}$ " square drive adapters. Adapters convert  $\frac{5}{16}$ " and  $\frac{1}{4}$ " hex end bits to standard square drive. Use with ratchet wrench for quick removal and installation of Torx head fasteners. Sizes include T-15, T-20, T-25, T-30, T-40 and T-50.

### M. 720 Screw Extractor Kit

Removes screws, broken studs, set screws, pipe and Alemite fittings. Drill hole in screw. Place extractor into hole. Tap lightly with hammer. Turn counter-clockwise with tap wrench to remove screw. Features undercut flutes for more positive grip.

**Caution: Wear safety goggles.**

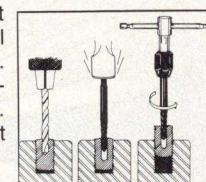
Includes the following screw extractors (available individually):



Extractor No.	Screw Size	Drill Size	Min. Depth Hole	Pipe Size
1109	$\frac{1}{4}$ ", $\frac{5}{16}$ "	$\frac{1}{8}$ "	$\frac{3}{8}$ "	—
1110	$\frac{3}{8}$ "	$\frac{3}{16}$ "	$\frac{1}{2}$ "	—
1111	$\frac{7}{16}$ "	$\frac{15}{64}$ "	$\frac{1}{2}$ "	$\frac{1}{8}$ "
1112	$\frac{1}{2}$ ", $\frac{9}{16}$ "	$\frac{5}{16}$ "	$\frac{1}{2}$ "	$\frac{1}{4}$ "
1113	$\frac{5}{8}$ "	$\frac{3}{8}$ "	$\frac{5}{8}$ "	$\frac{3}{8}$ "

### N. 2419 Spiral Screw Extractor Kit

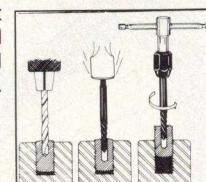
Removes screws, broken studs, set screws, pipe and Alemite fittings. Drill hole into screw. Place extractor in hole. Tap lightly with hammer. Turn counter-clockwise with tap wrench to remove. Spiral blades grip screw. Extractors fit the following:



Extractor No.	Screw, Bolt or Stud Size	Drill Size
2419-71	No. 12 to $\frac{5}{16}$ "	$\frac{7}{64}$ "
2419-72	$\frac{5}{16}$ " to $\frac{7}{16}$ "	$\frac{5}{32}$ "
2419-73	$\frac{7}{16}$ " to $\frac{9}{16}$ "	$\frac{1}{4}$ "
2419-74	$\frac{9}{16}$ " to $\frac{3}{4}$ "	$\frac{17}{64}$ "

### O. 2584 Screw Extractor Set with Drills

Removes screws, broken studs, set screws, pipe and Alemite fittings. Drill included for each extractor. Spiral blades on extractor grip screws. Extractors available individually:



Extractor No.	Screw, Bolt or Stud Size	Drill Size
2419-71	No. 12 to $\frac{5}{16}$ "	$\frac{7}{64}$ "
2419-72	$\frac{5}{16}$ " to $\frac{7}{16}$ "	$\frac{5}{32}$ "
2419-73	$\frac{7}{16}$ " to $\frac{9}{16}$ "	$\frac{1}{4}$ "
2419-74	$\frac{9}{16}$ " to $\frac{3}{4}$ "	$\frac{17}{64}$ "



### A. 162 Feeler Gauge

Measures clearances .002" to .025" (.051mm to .635mm). Includes 2½" rule. 15 blades, sizes:

Inches	Millimeters	Inches	Millimeters
.002	.051	.013	.330
.003	.076	.014	.356
.004	.102	.016	.406
.005	.127	.018	.457
.006	.152	.020	.508
.008	.203	.022	.599
.011	.279	.025	.635
.012	.305		

### B. 161 Deluxe Feeler Gauge

Measures clearances from .0015" to .035" (.038mm to .889mm). Also includes one .010" brass blade for use with electronic ignitions.

Inches	Millimeters	Inches	Millimeters
.0015	.038	.015	.381
.002	.051	.016	.406
.0025	.063	.017	.432
.003	.076	.018	.457
.004	.102	.019	.483
.005	.127	.020	.508
.006	.152	.021	.533
.007	.178	.022	.559
.008	.203	.023	.584
.009	.229	.024	.610
.010	.254	.025	.635
.010 Brass	.254	.026	.660
.011	.279	.028	.711
.012	.305	.030	.762
.013	.330	.032	.813
.014	.356	.035	.889

### C. 2062 Mini Feeler Gauge

Miniature feeler gauge is only ¼" wide x 1¾" long. Measures clearances from .010" to .035" (.254mm to .889mm). 16 blade sizes:

Inches	Millimeters	Inches	Millimeters
.010	.254	.022	.559
.012	.305	.024	.610
.015	.381	.025	.635
.016	.406	.026	.660
.017	.432	.028	.711
.018	.457	.030	.762
.019	.483	.032	.813
.020	.508	.035	.889

### D. 2274 Metric Feeler Gauge

Measures clearances .04mm to 1.00mm. 25 blades

Blade sizes:

.04, .05, .06, .07, .08, .09, .10, .15, .20, .25, .30, .35, .40, .45, .50, .55, .60, .65, .70, .75, .80, .85, .90, .95, 1.00

### E. 163 Valve Tappet Feeler Gauge

Measures valve tappet clearance to .001". Offset blades provide easy access. 11 blades etched as follows:

Inches	Millimeters	Inches	Millimeters
.008	.203	.016	.406
.010	.254	.018	.457
.012	.305	.019	.483
.013	.330	.020	.508
.014	.356	.026	.660
.015	.381		

### F. 2223 Non-Magnetic Feeler Gauge

Measures clearance in electronic ignition systems where non-magnetic blades are required. Hard brass will not become magnetized. Six blades etched in thousandths and millimeters.

Inches	Millimeters	Inches	Millimeters
.006	.152	.012	.305
.008	.203	.014	.356
.010	.254	.016	.406

### G. 2424 Go-No-Go Feeler Gauge

Check clearance measurements with a .002" range. Stepped blades quickly indicate if clearance falls within specified range. 22 etched blades cover complete range of sizes from .004" to .027" (.10mm to .69mm).

### H. 164 Spark Plug Gap and Feeler Gauge Set

Measures spark plug and other ignition clearances from .010" to .045" (.254mm to 1.143mm). Six wire gauges check spark plug gap. Twelve straight blades check other clearances. Double-ended electrode tool for easy adjustments.

Wire gauge sizes:

Inches	Millimeters	Inches	Millimeters
.025	.635	.035	.889
.030	.762	.040	1.016
.034	.864	.045	1.143

Twelve blade sizes:

Inches	Millimeters	Inches	Millimeters
.010	.254	.019	.483
.012	.305	.020	.508
.015	.381	.022	.559
.016	.406	.024	.610
.017	.432	.025	.635
.018	.457	.026	.660

### I. 165 Spark Plug Gap Wire Gauge

Measures spark plug gaps from .015" to .45" (.381mm to 1.143mm). Double-ended tool included for adjusting electrode.

Wire sizes:

Inches	Millimeters	Inches	Millimeters
.020	.508	.032	.813
.025	.635	.034	.864
.028	.711	.035	.889
.030	.762	.040	1.016

### J. 166 Spark Plug Gap Wire Gauge

Measures spark plug electrode gap from .025" to .045" (.64mm to 1.14mm). Includes two electrode adjusting tools.

Wire gauge sizes:

Inches	Millimeters	Inches	Millimeters
.025	.64	.035	.89
.030	.76	.040	1.02
.034	.86	.045	1.14

### K. 2327 Spark Plug Gap Gauge

Measures spark plug electrode gap on wide gap plugs from .040" to .080" (1.02mm to 2.03mm). Includes two electrode adjusting tools.

Gauge sizes:

Inches	Millimeters	Inches	Millimeters
.040	1.02	.050	1.27
.044	1.12	.060	1.52
.045	1.14	.080	2.03

### L. 3293 Spark Plug Gap Gauge

Circular "coin" type ramp gauge easily measures spark plug gap ranging from .020" to .100" or 0.6mm to 2.4mm.



### Safety Tips for Pullers

1. Always use approved eye protection when operating pulling equipment.
2. Always be sure the center screw threads are clean and well lubricated.
3. Always be sure the puller is seated properly and not cocked at an angle.
4. Always be aware of hand positions when using slide hammer pullers.
5. Always use a three jaw puller when you have the option.
6. Always use the largest size puller possible to do the job efficiently. Do not overstress the puller.
7. Always protect bystanders and yourself by screening puller operations.
8. Never heat the jaws of pullers. When heating bearings or gears, be sure the torch does not touch the puller jaws, because it can change their temper.
9. Never use any puller with worn or damaged parts.

## A. Split Bearing Attachments

Designed for the removal of bearings, thin-faced gears and cone-shaped gears. Bevelled edge allows insertion behind pulleys, gears, or bearings where space limits use of a standard puller jaw. Use to grip part to be pulled. Then pull with gear puller.

Item No.	Min. Reach	Max. Reach
2263	0	2 1/4"
2264	0	4 1/4"
2265	1/2"	8 5/8"

## B. 2256 Slide Hammer Puller Set

Slide Hammer Puller Set for outside and inside pulling of gears, bearings, pinions, grease retainers, oil seals, bearing out races, and many other jobs. Use as two-jaw or three-jaw puller. Reversing the cone and jaws adjusts the tool for inside pulling. Comes with a 2 1/2 pound hammer. Slide hammer has 5/8"-18 UNF thread.

	Outside	Inside
Capacity with 2-Jaws	1" to 4 1/2"	1 1/4" to 3 3/4"
Capacity with 3-Jaws	1 1/2" to 4 1/2"	1 5/16" to 4 3/4"

Replacement parts available:

- 2256-72 Puller Arm
- 2256-73 Two Way Puller Head
- 2256-74 Three Way Puller Head
- 2256-75 Adjusting Cone
- 2256-76 Nut and Screw Package
- 2300-73 Hammer (5 lb.)

## C. 3300 Slide Hammer Adapter Kit

Consists of four threaded adapters to connect most slide hammers to special pullers with various thread sizes.

Sizes include:

- 5/8" - 11 UNC Female x 1/2" - 13 UNC Male Adapter
- 5/8" - 18 UNF Female x 1/2" - 13 UNC Male Adapter
- 1/2" - 13 UNC Female x 5/8" - 11 UNC Male Adapter
- 1/2" - 13 UNC Female x 5/8" - 18 UNF Male Adapter

Available individually:

- 3301 5/8" - 11 UNC Female x 1/2" - 13 UNC Male Adapter
- 3302 5/8" - 18 UNF Female x 1/2" - 13 UNC Male Adapter
- 3303 1/2" - 13 UNC Female x 5/8" - 11 UNC Male Adapter
- 3304 1/2" - 13 UNC Female x 5/8" - 18 UNF Male Adapter

**Caution: Wear eye protection. For intended use only.**

## D. 2251 Heavy Duty Universal Wheel Hub Puller

Use to pull wheel hubs where bolt circle does not exceed 7 1/2". Quickly adjusts to fit any hub, regardless of the number of wheel studs.

Replacement part available:

- 2251-74 Striking Wrench

## E. Combination Two and Three Jaw Adjustable Gear Pullers

Heavy duty two or three-jaw adjustable pullers designed for your toughest pulling jobs. Uses special 2-3 way yoke. Jaws reverse for inside and outside pulling. The triple-jaw design provides a positive three-point grip on the part to be pulled. The three-position jaws provide added versatility and extended reach. All parts are heat treated for durability.

Item No.	Jaw Position	Max. Spread	Max. Reach	Center Capacity	
				Tons	Screw Size
2259	2	14"	11"	13	13 1/16" x 12"
2260	3	17"	15"	13	13 1/16" x 12"
2293	2	4"	3 1/2"	3	13 1/8" x 4 3/4"
2297	2	7"	5 1/2"	5	5/8" x 6 1/16"

Replacement parts available:

- 2254-72 Jaws
- 2254-73 Link
- 2292-71 Nut and Screw Package
- 2295-77 Yoke and Screw Package

## F. Combination Two and Three Jaw Reversible Gear Puller

Jaws reverse for inside and outside pulling and also reverse end to end to use either style foot. Large spread and reach accommodate flywheels, pulleys, and gears. 3-point grip applies a parallel pull.

Item No.	Jaw Position	Max. Spread	Max. Reach	Center Capacity Tons	Screw Size
2295	1	6"	3 1/2"	4	5/8" x 6 1/16"

Replacement parts available:

- 2292-71 Nut and Screw Package
- 2295-72 Jaw
- 2295-75 Link
- 2295-77 Yoke and Screw Package

## G. Two Jaw Reversible Gear Pullers

Jaws reverse for inside and outside pulling and also reverse end to end to use either style foot. Large spread and reach accommodate flywheels, pulleys, and gears. 2-point grip applies a parallel pull.

Item No.	Jaw Position	Max. Spread	Max. Reach	Center Capacity Tons	Screw Size
2294	1	6"	3 1/2"	5	5/8" x 6 1/16"
2298	1	8"	5 1/2"	5	1 1/16" x 9 1/8"

Replacement parts available:

- 2292-71 Nut and Screw Package
- 2295-72 Jaw
- 2298-71 Nut and Screw Package
- 2298-72 Yoke and Screw Package
- 2298-73 Jaw
- 2298-75 Link

## H. Three Jaw Reversible Gear Pullers

Jaws reverse for inside and outside pulling and also reverse end to end to use either style font. Large spread and reach accommodate flywheels, pulleys, and gears. 3-point grip applies a parallel pull.

Item No.	Jaw Position	Max. Spread	Max. Reach	Center Capacity Tons	Screw Size
2299	1	8"	5 1/2"	5	1 1/16" x 9 1/8"

Replacement parts available:

- 2298-71 Nut and Screw Package
- 2298-73 Jaw

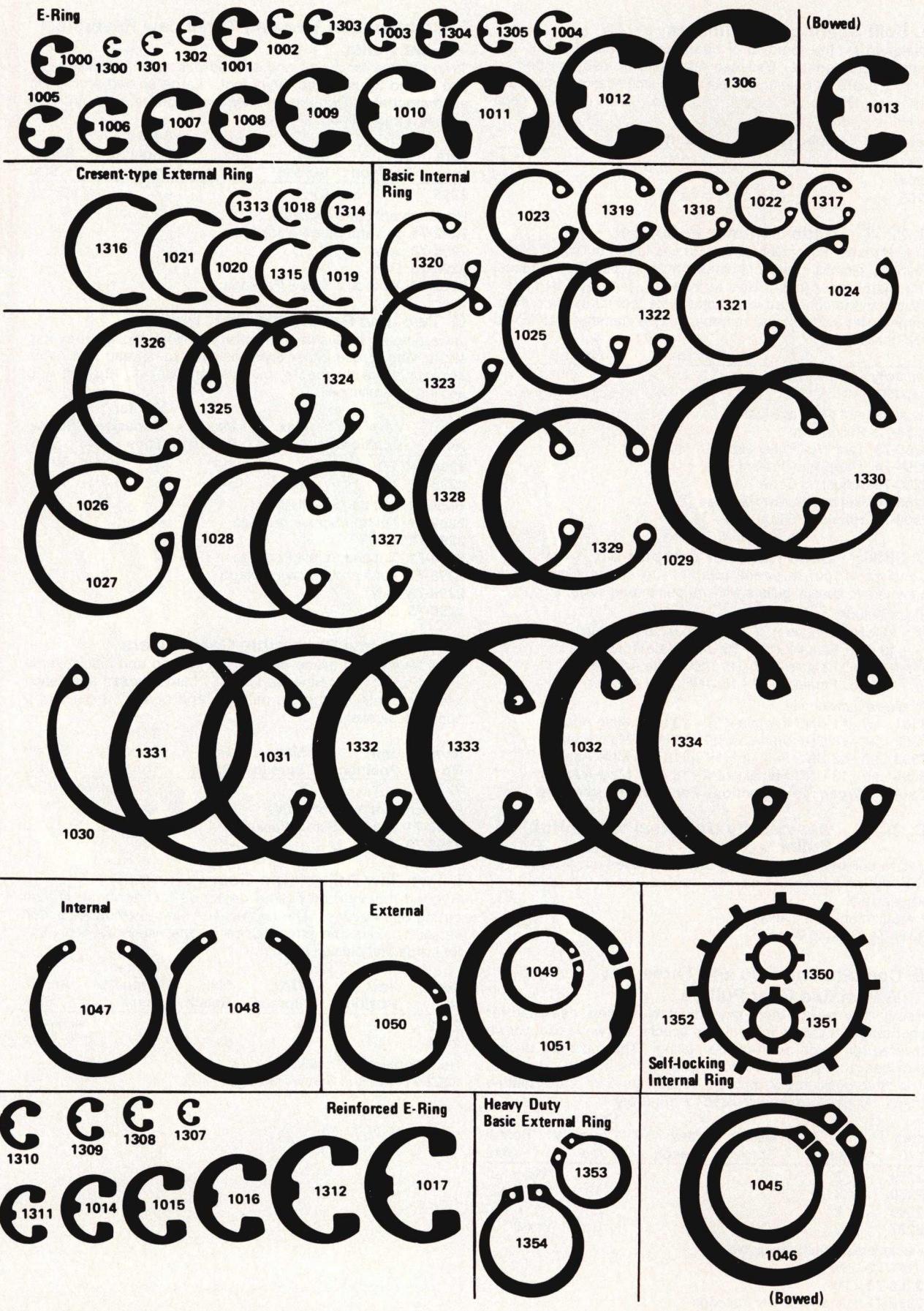
## I. Two Jaw Adjustable Gear Pullers

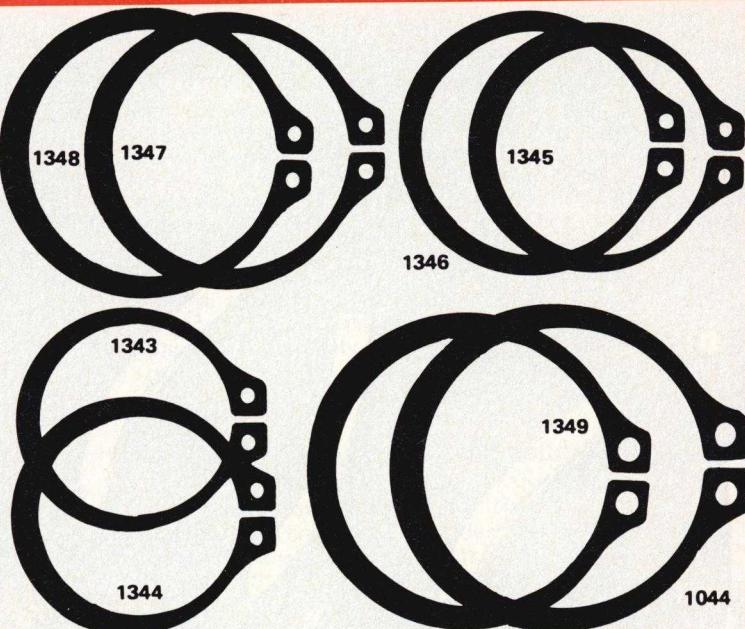
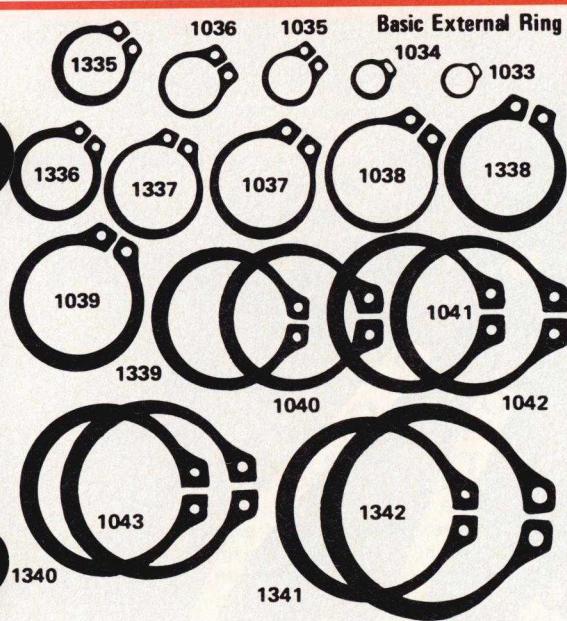
Rugged, heavy-duty pullers designed for the most difficult pulling applications. The two position jaws provide for added versatility along with extended reach capabilities. Jaws reverse for inside and outside pulling.

Item No.	Jaw Position	Max. Spread	Max. Reach	Center Capacity Tons	Screw Size
2292	2	4"	3 1/2"	3	3/8" x 4 3/4"
2296	2	7"	5 1/2"	5	5/8" x 6 1/16"

Replacement part available:

- 2292-71 Nut and Screw Package





No. 1000 Nos. 1001-1012 Nos. 1013 Nos. 1014-1017 Nos. 1018-1021 Nos. 1022-1032 Nos. 1033-1044 Nos. 1045 & 1046 Nos. 1047 & 1048 Nos. 1049-1051  
E-Ring 1300-1306 E-Ring (Bowed) E-Ring (Bowed) Reinforced E-Ring Crescent External Internal Internal External External (Bowed) Internal External

Item No.	Shaft Diam. Inches	Housing Diam. Inches	Free Diam. "A"	Std. Pack
1000	5/32"		.113	15
1001	7/64"		.076	20
1002	1/8"		.094	20
1003	5/32"		.114	20
1004	3/16"		.145	20
1005	9/32"		.122	20
1006	7/32"		.185	20
1007	1/4"		.207	20
1008	5/16"		.243	20
1009	3/8"		.300	15
1010	7/16"		.337	15
1011	1/2"		.392	15
1012	5/8"		.480	15
1013	1/2"		.392	15
1014	1/4"		.204	20
1015	5/16"		.242	20
1016	9/32"		.292	15
1017	9/16"		.430	12
1018	7/32"		.188	20
1019	3/8"		.328	20
1020	1/2"		.441	15
1021	5/8"		.553	15
1022		7/16"	.482	20
1023		5/8"	.694	12
1024		3/4"	.831	12
1025		9/16"	.971	12
1026		1"	1.111	10
1027		1.023"	1.136	10
1028		1 1/16"	1.180	8
1029		1 1/4"	1.388	7
1030		1 1/8"	1.526	6
1031		1 1/2"	1.660	6
1032		1 3/4"	1.941	4
1033		5/32"	.142	20
1034		3/16"	.168	20
1035		1/4"	.225	20

Item No.	Shaft Diam. Inches	Housing Diam. Inches	Free Diam. "A"	Std. Pack
1036	5/16"		.281	20
1037	1/2"		.461	12
1038	.551		.509	12
1039	5/8"		.579	12
1040	1 1/16"		.635	12
1041	3/4"		.693	12
1042	25/32"		.722	12
1043	27/32"		.780	12
1044	1 1/16"		1.446	5
1045	25/32"		.722	10
1046	1 1/4"		1.156	6
1047		1"	1.081	10
1048		1 1/8"	1.217	7
1049		1/2"	.461	15
1050		3/4"	.693	12
1051		1 1/8"	1.041	6
1300		.062	.051	20
1301		.093	.073	20
1302		.093	.069	20
1303		.140	.102	20
1304		.187	.122	20
1305		.171	.125	20
1306		.750	.574	15
1307		.093	.072	20
1308		.125	.093	20
1309		.156	.113	20
1310		.187	.143	20
1311		.219	.182	20
1312		.500	.385	15
1313		.187	.161	12
1314		.250	.211	20
1315		.437	.386	15
1316		.750	.665	15
1317			.375	.415
1318			.512	.560
1319			.562	.620

Item No.	Shaft Diam. Inches	Housing Diam. Inches	Free Diam. "A"	Std. Pack
1320			.688	12
1321			.777	20
1322			.812	12
1323			.901	14
1324			.920	14
1325			.938	14
1326			.970	14
1327			1.125	8
1328			1.181	10
1329			1.218	10
1330			1.312	7
1331			1.438	8
1332			1.562	6
1333			1.625	6
1334			1.812	4
1335			.375	20
1336			.438	20
1337			.469	8
1338			.562	8
1339			.669	25
1340			.812	12
1341			.875	12
1342			1.000	12
1343			1.062	10
1344			1.125	10
1345			1.188	10
1346			1.250	10
1347			1.312	8
1348			1.375	8
1349			1.500	8
1350				.437
1351				.500
1352				1.437
1353				.437
1354				.615

## SPECIALTY TOOLS SNAP RINGS



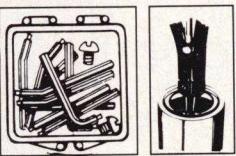
### A. 445 Internal Snap Ring Pliers Set

Removes and installs internal snap rings. Fits internal snap rings  $\frac{1}{4}$ " to  $1\frac{1}{2}$ " in diameter. Includes five pair of interchangeable points. Point sizes: .039" diameter, 15° angle; .048" diameter, 15° angle; .074" diameter, 15° angle; .039" diameter, 45° angle; .047" diameter, 90° angle. Use 447 and 448 point sets with these pliers. Use  $\frac{5}{64}$ " hex key when replacing points.

**Caution: Wear safety goggles.**

Replacement part available:

1445-75 Clamps and Screws



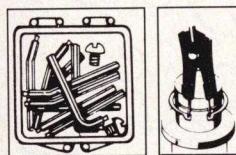
### B. 446 External Snap Ring Pliers Set

Removes and installs external snap rings. Fits external snap rings  $\frac{1}{4}$ " to  $1\frac{1}{2}$ " in diameter. Includes five pair of interchangeable points. Point sizes: .039" diameter, 15° angle; .048" diameter, 15° angle; .074" diameter, 15° angle; .039" diameter, 45° angle; .047" diameter, 90° angle. Use 447 and 448 point sets with these pliers. Use  $\frac{5}{64}$ " hex key when replacing points.

**Caution: Wear safety goggles.**

Replacement part available:

1445-75 Clamps and Screws



### C. 455 Heavy Duty Internal Snap Ring Pliers Set

Removes and installs heavy duty internal snap rings. Fits internal snap ring from  $2\frac{7}{16}$ " to  $4\frac{1}{2}$ " in diameter. Includes three pairs of interchangeable points. Point sizes: .108" diameter, 15° angle; .108" diameter, 45° angle; .123" diameter, 45° angle. Use 457 Heavy Duty point set with these pliers. Use a  $\frac{3}{32}$ " hex key when replacing points.

**Caution: Wear safety goggles.**

Replacement part available:

1445-75 Clamps and Screws



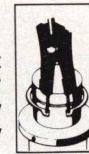
### D. 456 Heavy Duty External Snap Ring Pliers Set

Removes and installs heavy duty external snap rings. Fits external snap rings from  $1\frac{1}{2}$ " to  $4\frac{1}{2}$ " in diameter. Includes three pairs of interchangeable points. Point sizes: .108" diameter, 15° angle; .108" diameter, 45° angle; .123" diameter, 45° angle. Use 457 Heavy Duty point set with these pliers. Use a  $\frac{3}{32}$ " hex key when replacing points.

**Caution: Wear safety goggles.**

Replacement part available:

1445-75 Clamps and Screws



### E. Snap Ring Pliers

Removes and installs internal and external snap rings. Pliers have comfortable plastic dipped handles. Use 447 and 448 point sets with these pliers.

**Caution: Wear safety goggles.**

Item No. Description

2395	Internal Snap Ring Pliers
2396	External Snap Ring Pliers

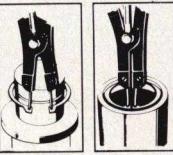
### F. 2011 Combination Snap Ring Pliers

Pliers remove and install internal and external snap rings. Includes five pairs of interchangeable points. Point sizes: .039" diameter, 15° angle; .047" diameter, 15° angle; .074" diameter, 15° angle; .039" diameter, 45° angle; .047" diameter, 90° angle. Points lock securely into jaws. Screw type design maintains jaw position during use. Fits internal snap rings  $\frac{1}{4}$ " to  $1\frac{1}{2}$ " in diameter. Fits external snap rings  $\frac{1}{8}$ " to  $1\frac{1}{2}$ " in diameter.

**Caution: Wear safety goggles.**

Replacement part available:

1445-75 Clamps and Screws



### G. 2012 Heavy Duty Combination Snap Ring Pliers

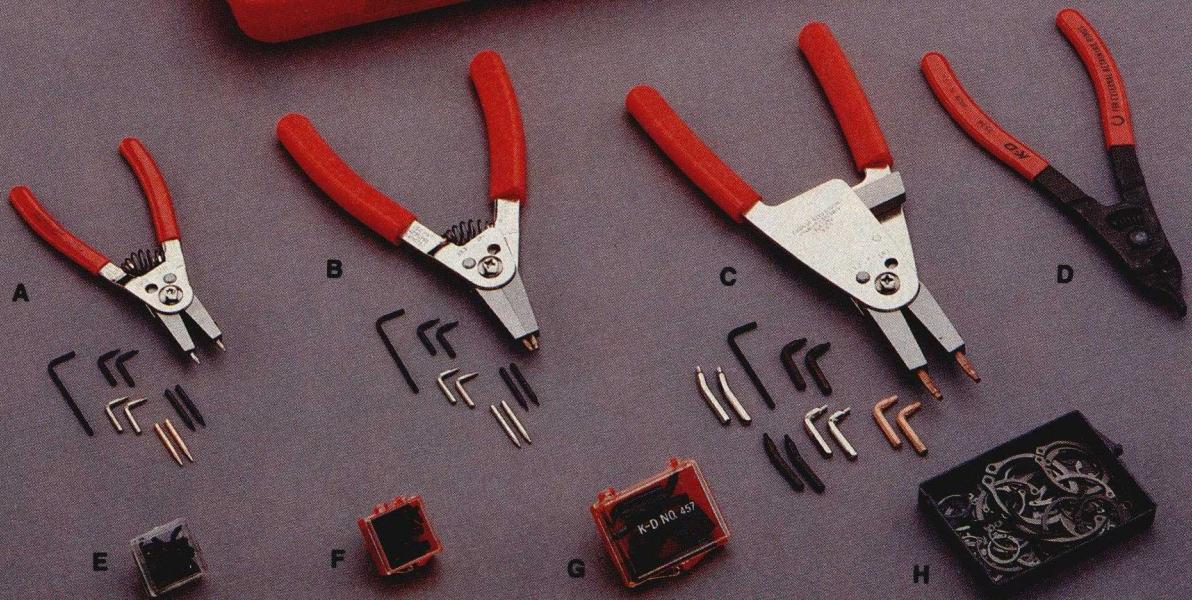
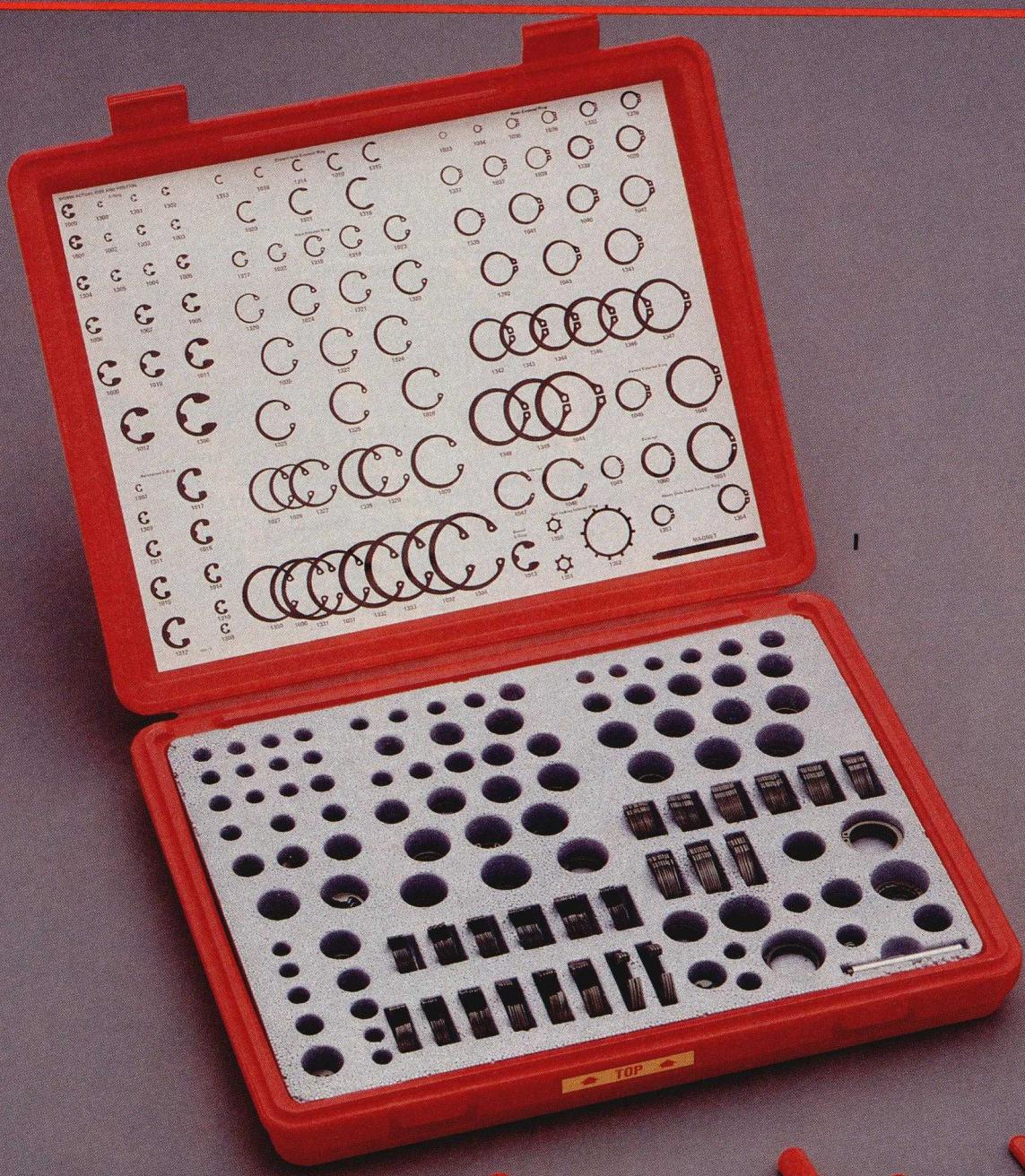
Removes and installs heavy duty internal and external snap rings. Includes three pairs of interchangeable points. Point sizes: .108" diameter, 15° angle; .108" diameter, 45° angle; .123" diameter, 45° angle. Points lock securely into jaws. Screw type design maintains jaw position during use. Fits internal snap rings  $2\frac{7}{16}$ " to  $4\frac{1}{2}$ " in diameter. Fits external snap rings  $1\frac{1}{2}$ " to  $4\frac{1}{2}$ " in diameter

**Caution: Wear safety goggles.**

Replacement part available:

1445-75 Clamps and Screws





**Convertible Internal and External Snap Ring Pliers**

Easily converts for either external or internal use on snap rings. Unique push button feature allows for effortless change. Heavy duty cushion grip handles provide comfort. Broached jaws for tip control and stability

**A. 3150 Small Convertible Internal and External Snap Ring Pliers**

For use on small internal and external snap rings where space is limited. Includes five pair of color-coded tips in sizes .023 straight, .036, .047 straight and 90 degree. Use on external ring sizes  $\frac{1}{8}$ " through 1" (3.2mm through 25.4mm). Use on internal ring sizes  $\frac{1}{4}$ " through 1" (6.4mm through 25.4mm).

**Caution: Wear safety goggles.**

Replacement parts available:

- 3150-77 Replacement Point Kit - 2 ea. of 5 different sizes.  
 2 pc. .023 Straight  
 2 pc. .047 Straight  
 2 pc. .047 90 degree  
 2 pc. .036 Straight  
 2 pc. .036 90 degree

**B. 3151 Large Convertible Internal and External Snap Ring Pliers**

For use on most internal and external snap rings. Includes five pair of color-coded tips in sizes .036, .047 straight and 90 degree, and .070 straight. Use on external ring sizes  $\frac{1}{4}$ " through 2" (6.4mm through 50.8mm). Use on internal ring sizes  $\frac{3}{8}$ " through 2" (9.5mm through 50.8mm).

**Caution: Wear safety goggles.**

Replacement part available:

- 3151-77 Replacement Point Kit - 2 each of 5 different sizes.  
 2 pc. .070 Straight  
 2 pc. .047 Straight  
 2 pc. .047 90 degree  
 2 pc. .036 Straight  
 2 pc. .036 90 degree

**C. 3152 Extra Large Convertible Internal, External Snap Ring Pliers**

For use on large internal and external snap rings including automatic transmissions. Features "ratchet lock" to hold snap ring in desired position. Includes six pair of color-coded alloy steel tips in sizes .090, .108, .120 bent 15 degrees and 90 degrees. Use on external ring sizes  $1\frac{1}{2}$ " through 4" (38.1mm through 101.6mm) Use on internal ring sizes  $1\frac{3}{16}$ " through 4" (46mm through 101.6mm)

**Caution: Wear safety goggles.**

3152-77 Replacement Point Kit - 2 ea. of 5 different sizes.

- 2 pc. .090 15 degree  
 2 pc. .090 90 degree  
 2 pc. .108 15 degree  
 2 pc. .108 90 degree  
 2 pc. .120 15 degree  
 2 pc. .120 90 degree

**D. 2534 Lock Ring Pliers**

Removes and installs snap rings without holes used on brakes, transmissions, pedal shafts, and clutch shafts. Scored jaws hold rings securely.

**E. 447 Interchangeable Points Set**

Includes five pair of interchangeable points and two retaining screws for snap ring pliers 2011, 445, 446, 2395 and 2396. Use  $\frac{5}{64}$ " hex key when replacing points.

**Caution: Wear safety goggles.**

.039"	15 degree
.047"	15 degree
.074"	15 degree
.039"	45 degree
.047"	90 degree

**F. 448 Interchangeable Points Set**

Includes nine pair of interchangeable points and two retaining screws for snap ring pliers 2011, 445, 446, 2395 and 2396. Use  $\frac{5}{64}$ " hex key when replacing points.

**Caution: Wear safety goggles.**

.039"	15 degree
.047"	15 degree
.074"	15 degree
.039"	45 degree
.047"	45 degree
.074"	45 degree
.039"	90 degree
.047"	90 degree
.074"	90 degree

**G. 457 Heavy Duty Interchangeable Point Set**

Three pair of interchangeable points and one pair of jaw plate clamp screws for heavy duty snap ring pliers 454, 455, 456, 2012. Use  $\frac{3}{32}$ " hex key with replacing points.

**Caution: Wear safety goggles.**

.108"	15 degree
.108"	45 degree
.123"	45 degree

**H. 985 Emergency Snap Ring Assortment**

Includes the 52 most popular internal and external snap rings for emergency repairs on autos, industrial equipment, and home appliances. An actual size silhouette chart is packed with each set for easy identification of snap rings.

**I. 2550 Snap Ring Assortment**

Includes a starter assortment of 107 different size internal and external snap rings in a molded plastic case. Actual size silhouette chart in lid makes identification easy. Overall case size is 18" x 13" x 2  $\frac{1}{2}$ ". Ideal assortment for jobbers and dealers to keep on hand. Refills available.

**Caution: Wear safety goggles.**



**A. 242 Parts Cleaning Brush**

Use to remove grease and dirt from automotive parts. Strong handle with durable polypropylene bristles will hold up under repeated use in cleaning solvents.

**Caution:** Wear safety goggles.

**B. 2310 Curved Handle Wire Scratch Brush**

Cleans carbon, dirt and paint from metal and other surfaces. Overall length is approximately 14". Bristle area is 3 x 19 rows, 1 1/8" trim and 6" long. Wooden handle.

**Caution:** Wear safety goggles.

**C. 2311 Shoe Handle Wire Scratch Brush**

Cleans dirt, carbon and rust from metal and other surfaces. Bristles are densely packed over 5 1/4". Overall length approximately 10". Bristle area is 4 x 16 rows, 1 1/8" trim. Hardwood handle.

**Caution:** Wear safety goggles.

**D. 2312 1" Knot-Type Wire End Brush**

Removes rust, carbon and paint from metal and other surfaces. Designed for heavy duty use. Industrial tempered straight twisted wire, .020". Use with electric drills, pneumatic tools or flexible shaft equipment.

**Caution:** Wear safety goggles.

Face Diameter	Shank Diameter	Max Safe Free Speed
1"	1/4"	20,000 RPM

**E. 1739 3/4" Crimped Wire End Brush**

For use with electric drills, pneumatic tools and flexible shafts. Crimped wire thoroughly and quickly removes deposits from cylinder heads, blocks, tops of pistons, and valve ports.

**Caution:** Wear safety goggles.

Face Diameter	Shank Diameter	Max Safe Free Speed
3/4"	1/4"	20,000 RPM

**F. 2313 1" Crimped Wire End Brush**

Removes dirt, rust, and paint from metal and other surfaces. Designed for general purpose cleaning. .020 industrial crimped wire. Use in electric drill, pneumatic tools, or flexible shaft equipment.

**Caution:** Wear safety goggles.

Face Diameter	Shank Diameter	Max Safe Free Speed
1"	1/4"	20,000 RPM

**G. 2314 2 1/2" Wire Cup Brush**

Removes light scale, rust and paint from surfaces. Designed for light duty use. .014 high carbon steel wire. Use in electric drill and flexible shaft equipment.

**Caution:** Wear safety goggles.

Face Diameter	Shank Diameter	Max Safe Free Speed
2 1/2"	1/4"	5,000 RPM

**H. 1745 Super Heavy-Duty Cup Brush**

Use with power tool to remove weld flash, rust, scale and other imperfections. Great rigidity is developed from the exclusive method of tufting - each tuft of wire supports the others and thus reduces vibration. Threaded arbor hole fits directly on spindle.

**Caution:** Wear safety goggles.

Face Diameter	Face Width	Arbor Hole	Max Safe Free Speed
6"	1 3/4"	5/8-11 UNC	6,000 RPM

**I. Wire Wheel Adapters**

Replacement adapters for adjusting 2" inside diameter wire wheels to fit specific arbor size.

Item No.	Arbor Size
1733	1/2"
1734	3/4"
1735	5/8"

**J. Heavy-Duty Wire Wheels**

Use with portable tools and bench grinders to remove carbon, paint, rust, and scale. Also for roughing up tires and tubes prior to vulcanizing. Made from tough, wear-resistant wire, encased between two steel plates for an even brushing surface. Adapter furnished with each brush for arbor hole sizes listed. Additional adapters available.

**Caution:** Wear safety goggles.

Item No.	Face Diameter	Face Width	Arbor Hole	Max Safe Free Speed
1741	6"	1 1/8"	1/2"	6,000 RPM
1742	6"	7/16"	1/2", 5/8"	3,750 RPM
1743	7"	1 1/2"	5/8"	6,000 RPM
1744	8"	1 1/2"	5/8"	4,500 RPM

**K. Super Heavy-Duty Knot Type Wire Wheels**

Use with stationary or portable equipment for severe cleaning or buffing. Removes welding flash from bodies; cleans surface roughness, rust scale, and performs other heavy-duty cleaning operations. Constructed with strong, cable-like design. Wires support one another.

**Caution:** Wear safety goggles.

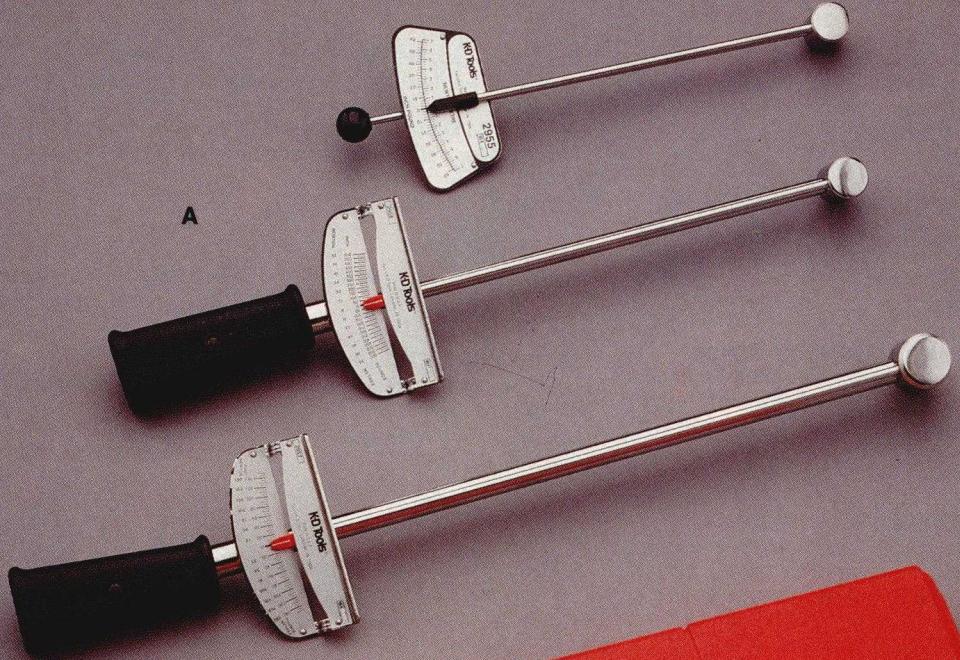
Item No.	Face Diameter	Face Width	Arbor Hole	Max Safe Free Speed
1737	6"	1"	1/2", 5/8"	9,000 RPM
1738	8"	1"	5/8"	8,500 RPM

**L. 3134 Super Brush**

Use with electric drill for removing rust, dirt and other foreign material on automotive rims. Can also be used for light scale and rust during body repair work.

Unique style brush is more aggressive and will not give or fray like typical brushes. Super Brush will last up to four times longer. Provides the stiffness to clean unwanted material from tight areas and creases where normal brushes will mushroom and prevent proper cleaning. Brush face is 3" in diameter and is 1/4" thick, with a 1/4" shank.

**Caution:** Wear safety goggles.



### A. Beam Type Torque Wrenches

Directly measure a variety of torque values when tightening fasteners. Pointer moves clockwise or counter-clockwise to measure torque in English and metric. Satin finish scale reduces glare. Inch pound models feature ball type handles which localize force, assuring accuracy. Foot pound version has comfortable, palm-fit handle to provide natural smooth, accurate pull. Palm-fit handle pivots on beam to maintain constant distance from drive point to load point for precise measurement. Wrench can be easily calibrated by bending pointer to zero before use. Serviceable product.

**2955**

English Range – 0-60 in. lb.  
Metric Range – 0-7 Nm  
Drive –  $\frac{1}{4}$ " fixed, non-ratchet  
English Grads – 2.5 in. lb.  
Metric Grads – .25 Nm  
Overall length – 11"  
Weight – .5 lb.

**2956**

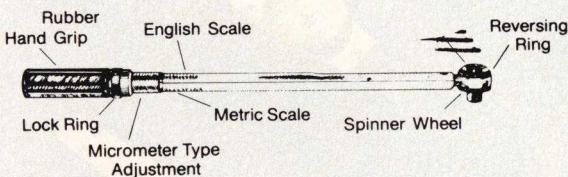
English Range – 0-600 in. lb.  
Metric Range – 0-68 Nm  
Drive –  $\frac{3}{8}$ " fixed, non-ratchet  
English Grads – 50 in. lb.  
Metric Grads – Converts to metric at 100 in. lb. intervals  
Overall length – 16"  
Weight – 1 lb.

**2957**

English Range – 0-150 ft. lb.  
Metric Range – 0-190 Nm  
Drive –  $\frac{1}{2}$ " fixed, non-ratchet  
English Grads – 5 ft. lb.  
Metric Grads – Converts to metric at 20 ft. lb. intervals  
Overall length – 20"  
Weight – 2.5 lb.

### B. Micrometer Torque Wrenches

Permits precise tightening of fasteners to manufacturers' specifications. Micrometer type setting is adjusted by rotating hand grip. Wrench indicates desired torque by feel and sound. Accurate to +/- 3% in upper 80% of range. Torque wrenches are chrome finished and stamped with English scale; some show metric scale. Pliable, elastomer hand grip is resistant to damage from impact or contact with automotive fluids. Ratchet head features 45 tooth ratchet design requiring only 8° of hand travel for indexing. Select driving direction with reversing ring. Cannot be accidentally changed. Turn spinner wheel to rapidly run down fastener. Includes unique palm pad top for safer operation. Hand pressure on flat top prevents slipping by keeping socket and fastener firmly engaged. Serviceable products. A repair and calibration service is available by returning torque wrench to an authorized repair facility. All wrenches include storage boxes. See price sheet for repair location.



**2951**

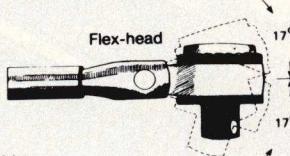
English Range – 15-100 ft. lb.  
Metric Range – 23.7-138.9 Nm  
Drive –  $\frac{3}{8}$ " ratchet  
English Grads – .5 ft. lb.  
Metric Grads – .68 Nm  
Overall length – 14.6"  
Weight – 2 lb.

**2952**

English Range – 30-250 ft. lb.  
Metric Range – 47.45-345.68 Nm  
Drive –  $\frac{1}{2}$ " ratchet  
English Grads – 1 ft. lb.  
Metric Grads – 1.36 Nm  
Overall length – 20.6"  
Weight – 2.8 lb.

**2953**

English Range – 100-600 ft. lb.  
Metric Range – 153-830 Nm  
Drive –  $\frac{3}{8}$ " ratchet  
English Grads – 2.5 ft. lb.  
Metric Grads – 3.4 Nm  
Overall length – 40"  
Weight – 10.5 lb.



**2954**

English Range – 5-75 ft. lb.  
Metric Range – 10.7-105.06 Nm  
Drive –  $\frac{3}{8}$ " ratchet, flexhead  
English Grads – .5 ft. lb.  
Metric Grads – .68 Nm  
Overall length – 11.75"  
Weight – 1.8 lb.

**3261**

English Range – 5-50 in. lb.  
Drive –  $\frac{1}{4}$ " ratchet  
English Grads – 1 in. lb.  
Metric Grads – .11 Nm  
Overall length – 8"  
Weight – .74 lb.

**3262**

English Range – 30-200 in. lb.  
Drive –  $\frac{1}{4}$ " ratchet  
English Grads – 1 in. lb.  
Metric Grads – .11 Nm  
Overall length – 9.5"  
Weight – .76 lb.

**3263**

English Range – 50-250 in. lb.  
Drive –  $\frac{3}{8}$ " ratchet  
English Grads – 1 in. lb.  
Metric Grads – .11 Nm  
Overall length – 9.5"  
Weight – .76 lb.

**3264**

English Range – 150-1000 in. lb.  
Metric Range – 19.78-115.83 Nm  
Drive –  $\frac{3}{8}$ " ratchet  
English Grads – 5 in. lb.  
Metric Grads – .565 Nm  
Overall length – 14.8"  
Weight – 2.04 lb.

**3265**

English Range – 10-150 ft. lb.  
Metric Range – 20.33-210.12 Nm  
Drive –  $\frac{1}{2}$ " ratchet  
English Grads – 1 ft. lb.  
Metric Grads – 1.36 Nm  
Overall length – 20.5"  
Weight – 2.5 lb.

**3266**

English Range – 30-250 ft. lb.  
Metric Range – 47.45-345.68 Nm  
Drive –  $\frac{1}{2}$ " ratchet, flexhead  
English Grads – 1 ft. lb.  
Metric Grads – 1.36 Nm  
Overall length – 22"  
Weight – 3 lb.



**A. 2561 Torque Multiplier**

Ruggedly constructed for precision torquing and tough nut braking jobs up to 2000 ft. lbs. Effective multiplication 10:1 +/- 4%. All gears and shafts in the precision low-stress, timed gear train are needle bearing mounted for accuracy and long life. Use with standard torque wrench. Serviceable product.

Maximum Input English –	200 ft. lb.
Maximum Input Metric –	272 Nm
Maximum Output English –	2000 ft. lb.
Maximum Output Metric –	2720 Nm
Effective Gear Ratio –	10:1
Female Input Drive –	½" square
Male Output Drive –	1" square
Multiplier Body Length –	11½"
Multiplier Body Width –	6"
Multiplier Body Depth –	6"
Reaction Bar –	24"
Overall length –	32½"

**Dial Torque Wrenches**

Accurately measures torque in English and metric. Inch and foot pound models available. Easy to read large dial face. Pointer used as indicator of desired torque. Follower needle on **2651**, **2652**, **2653**, and **2654**. Light signal featured on **2655** and **2656**. Accuracy assured by direct reading of +/- 2% of actual torque over a range from 20%-100% of full scale. Sealed dial and chrome finish for a long life. Plastic carrying cases are included with models **2651**, **2652**, **2653**, and **2654**. Model **2655** includes a metal case. **2654** and **2655** include one extension handle. Model **2656** contains four extension handles and T-handle drive head. Fixed drive head on all units. Serviceable products. A repair and calibration service is available by returning torque wrench to an authorized repair facility. See price sheet for repair location.

**B. 2656**

English Range – 0-2000 ft. lb.  
Metric Range – 0-2720 Nm  
Drive – 1" fixed, non-ratchet  
English Grads – 40 ft. lb.  
Metric Grads – 54 Nm  
Overall length – 110¾"

**C. 2655**

English Range – 0-1000 ft. lb.  
Metric Range – 0-1360 Nm  
Drive – 1" fixed, non-ratchet  
English Grads – 20 ft. lb.  
Metric Grads – 27.2 Nm  
Overall length – 74¼"

**D. 2654**

English Range – 0-600 ft. lb.  
Metric Range – 0-830 Nm  
Drive – ¾" fixed, non-ratchet  
English Grads – 10 ft. lb.  
Metric Grads – 13.6 Nm  
Overall length – 46½"

**E. 2653**

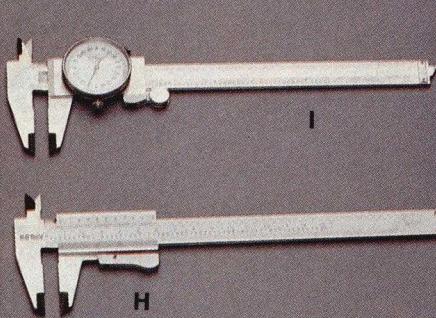
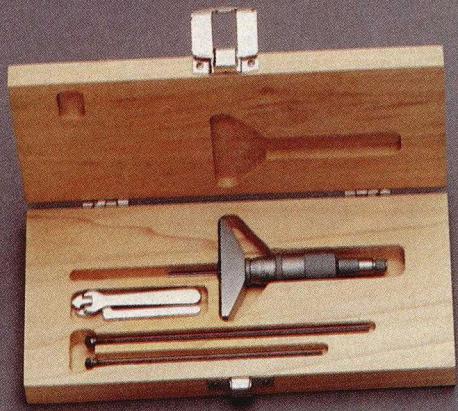
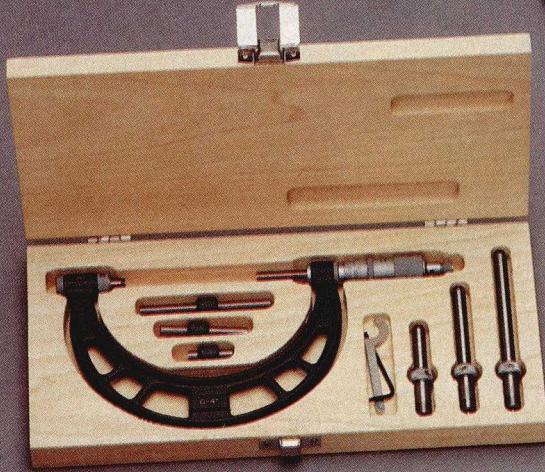
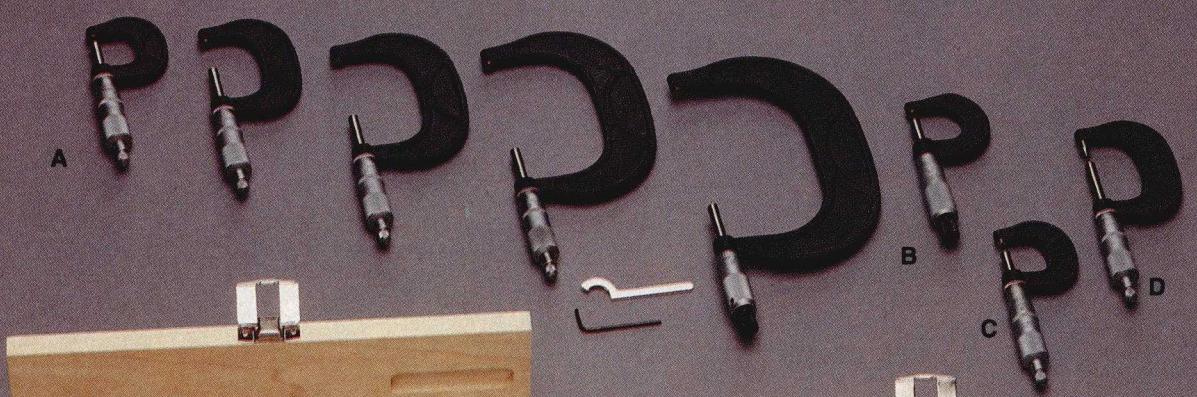
English Range – 0-250 ft. lb.  
Metric Range – 0-345.68 Nm  
Drive – ½" fixed, non-ratchet  
English Grads – 5 ft. lb.  
Metric Grads – 5 Nm  
Overall length – 22½"

**F. 2652**

English Range – 0-600 in. lb.  
Metric Range – 0-67.8 Nm  
Drive – ⅜" fixed, non-ratchet  
English Grads – 10 in. lb.  
Metric Grads – 1 Nm  
Overall length – 14⅞"

**G. 2651**

English Range – 0-250 in. lb.  
Metric Range – 0-28 Nm  
Drive – ⅜" fixed, non-ratchet  
English Grads – 5 in. lb.  
Metric Grads – .5 Nm  
Overall length – 10"

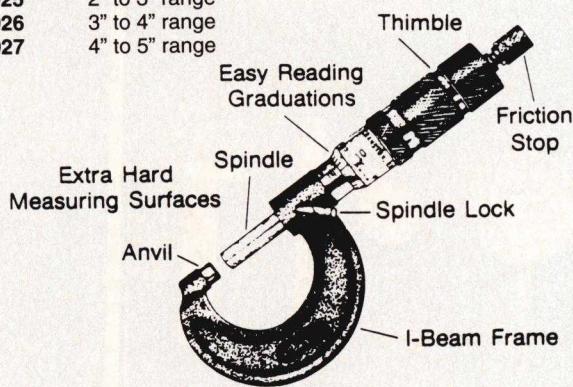


### A. Outside Micrometers

Make precision measurements to .001". Ideal for measuring valve stem diameter, crankshaft diameters, camshafts, and general purpose measuring. Anvil and spindle are carefully lapped to assure square, parallel faces. "I" beam frame is drop forged to maintain dimensional stability. Graduations are machine spaced and clearly marked for direct reading. Friction stop provides uniform pressure under all measuring conditions. Spindle lock holds spindle securely for transferring measurements. Micrometers can be simply recalibrated with hex key. Standards available for all models. Durable gray wrinkle finish. Serviceable product.

#### Item No. Description

2923	0" to 1" range
2924	1" to 2" range
2925	2" to 3" range
2926	3" to 4" range
2927	4" to 5" range



### B. 6000 Supreme Micrometer

Makes general purpose measurements from 0 to 1" in .001" increments. Working surfaces are hardened and lapped. Features friction stop, satin chrome barrel and drop forged frame with durable gray wrinkle finish. Serviceable product.

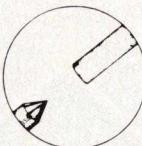
### C. 2928 Ball Anvil Micrometer

Measures bearing inserts and other curved surfaces from 0 to 1" in .001" increments. Ball-shaped anvil fits into curved recesses. Features friction stop, spindle lock and drop forged frame with durable gray wrinkle finish. Serviceable product.



### D. 2929 Disc Brake Micrometer

Measures thickness, thickness variation, and depth of scoring on disc brake rotors from .300" to 1.300". Graduated in .001". Features friction stop, spindle lock and drop forged frame with durable gray wrinkle finish. Includes 1" standard. Serviceable product.



### E. 2930 Range Micrometer

Adjusts to measure most automotive parts from a pin to a piston. Three interchangeable anvil extensions extend range from 0 to 4". Graduated in .001". Features crowned anvil surface, spindle lock, friction stop, and drop forged frame with durable gray wrinkle finish. Packaged in fitted wood case. Serviceable product.

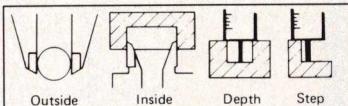
**Note:** Main tool body must be returned for fitting with new parts.

### F. 2931 Inside Micrometer

Measures engine cylinders, connecting rods, camshaft bores, main bearing bores and any other inside measurements from 1.5" to 8". Graduated in .001". Tubular-type rods attach to extension handle to reach into cylinders. Satin chrome finish. Packaged in fitted wood case. Serviceable product.

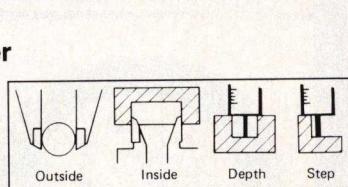
### G. 2932 Depth Micrometer

Precisely measures depth of holes, recesses, keyways, and other depth measurements from 0 to 3". Graduated to .001". Graduation numbers read right side up when gauge is in measuring position. Base length is 2 1/2". Satin chrome finish. Packaged in fitted wood case. Serviceable product.



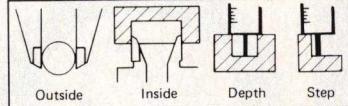
### H. 2962 Vernier Caliper

Checks inside, outside, depth and step measurements from 0 to 6" (0 to 152mm). Graduated in .001" (.025mm). Easy to read black graduations precisely etched on recessed face of hardened bar. Measuring surfaces precisely ground and lapped for accuracy. Made of stress-relieved stainless steel with satin finish. Features thumb lock. Serviceable product.



### I. 2963 Dial Caliper

Checks inside, outside, depth and step measurements from 0 to 6". Graduated in .001". Features adjustable dial indicator scale with fine line indicator needle for accurate readings. Thumb wheel adjusts caliper. Measuring surfaces precisely ground and lapped for accuracy. Made of stress-relieved stainless steel with satin finish. Features thumb lock. Packaged in storage case. Serviceable product.



### J. Universal Dial Indicator Test Sets

Make comparative measurements on automotive and industrial jobs where precision counts. Ideal for measuring distances, checking sizes, comparing alignment and comparing roundness. Dial indicator features 1 1/2" diameter bezel, jeweled bearings and rear mounted plunger. Two radiused contact points included (3/16" diameter and 5/16" diameter). Indicator range .200"; graduated in .001"; reading 0 to 100. Serviceable product.

#### Item No. Description

2938	Includes indicator holding rod (two sections), hole attachment for checking bores (.125" range), indicator C-clamp, universal rod connector and tool post holder. Packaged in plastic case.
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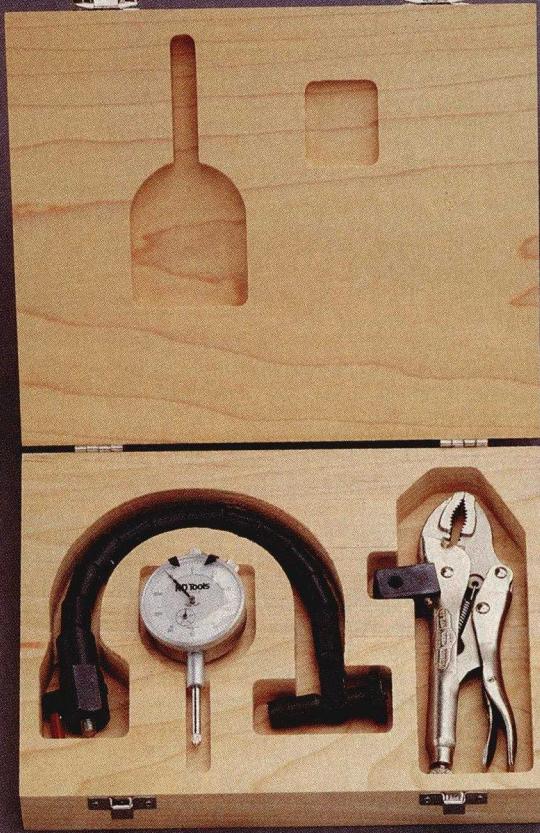
2939	Includes powerful magnetic base with post, indicator rod, 1" long contact point and two universal connectors. Packaged in fitted wood case.
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### K. 2940 Long Range Dial Indicator Test Set

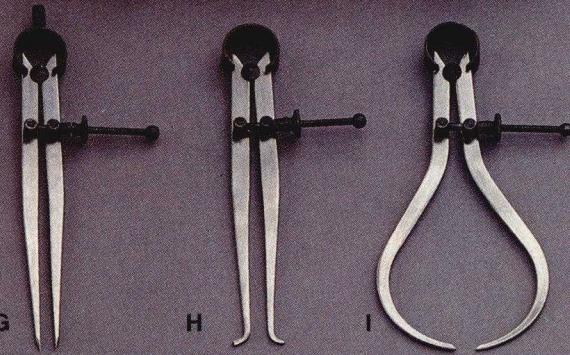
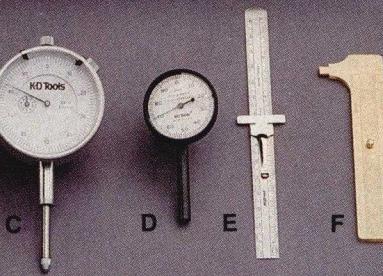
Makes precise direct measurements from 0 to 1". 2 1/4" diameter dial indicator is continuous and balanced, with revolution counter. Dial may be rotated for setting at any point. Range 1"; graduated to .001", reading 0 to 100. Includes powerful magnetic base with post and dual diameter rod, contact point, rod connector, and indicator holding clamp. Packaged in fitted wood case. Serviceable product.

### L. 2941 Magnetic Base

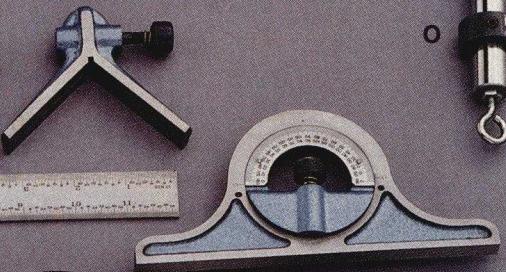
Securely mount dial indicator to any ferrous surface. Powerful, compact base with adjustable swivel clamp for post and arm. Base size 2" x 1 1/4" x 2" high. Post size 5/16" diameter x 4" long. Rod sizes are 1/4" and 5/16" in diameter by 4" long. Serviceable product.



A



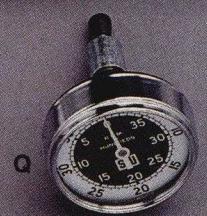
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L



N



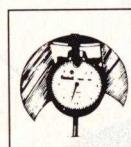
P

### A. 2942 Disc Brake Rotor/Ball Joint Gauge

Checks ball joint wear and disc brake rotor runout. Indicator mounts on Flex-arm which locks in any desired position. Arm attaches to locking pliers which clamp securely to any convenient object. Mounting directly on spindle eliminates false readings caused by wheel vibration. Caution should be used not to damage spindle threads. Can also be used as general purpose gauge for checking gear backlash, valve guide wear, and camshaft wear. Dial range 1"; graduated in .001"; 0 to 100 reading with revolution counter. Dial may be rotated for setting at any point. Includes retaining ring to prevent indicator from falling out when clamp is loosened. Packaged in fitted wood case. Serviceable product.

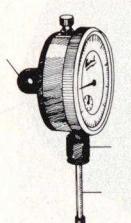
### B. 2943 Cylinder Bore Gauge

Accurately checks cylinder taper and out-of-round. Use with micrometer to check cylinder diameter. Range 2.125" to 7.00"; graduated in .0005"; reading 0-20-0. Indicator is fully visible when in use. 10½" handle reaches into deep bores. Serviceable product.



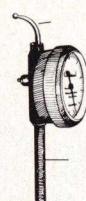
### C. 2945 Dial Indicator

Range 1.0"; graduated in .001"; reading 0 to 100; diameter 2¼"; continuous and balanced, with revolution counter; rack and pinion construction. Lug back, ¾" diameter shank. Serviceable product.



### D. 2946 Dial Indicator

Range .200"; graduated in .001"; reading 0 to 100; diameter 1½"; continuous, jeweled bearing construction, back plunger, ¼" diameter shank. Use on 2938 and 2939 Universal Dial Indicator Test Sets. Serviceable product.



### E. 2522 6" Stainless Steel Rule

Measures in English and metric. Graduated in 32nds of an inch and millimeters. Features decimal equivalent table and pocket clip which includes sliding T-stop for use as a stationary indicator and for measuring blind holes.

### F. 2527 4" Brass Pocket Slide Caliper

Checks inside and outside measurements in 1/32" and 1mm increments. Graduations permanently etched on surface.

### G. 2974 6" Dividers

Transfer measurements and mark off increments on surfaces from 0 to 6". Spring joint/screw holds setting. Tips full hardened and heat treated for long life. Brushed finish.

### H. 2976 6" Inside Calipers

Check inside dimensions up to 6". Spring joint/screw holds accurate setting. Tips fully hardened and heat treated for long life. Brushed finish.

### I. 2975 6" Outside Calipers

Check outside dimensions from 0 to 6". Spring joint/screw holds accurate setting. Tips fully hardened and heat treated for long life. Brushed finish.

### J. 2982 Telescoping Gauge Set

Check size of slots, grooves, recesses, and cylinders. Read measurement with micrometer or vernier. Turn knob at the end of handle to release or lock contacts. Self-centering. Satin chrome finish. Includes six gauge sizes.

### K. Combination Craftsmen Tools

Checks squares, measures angles to 180° and checks measurements in 8ths, 16ths, 32nds, and 64ths. Blade is fully hardened and tempered. Includes bubble level in machinist square and protractor head. Machinist square includes scribe.

Item No.	Description
2969	Machinist Square
2970	Blade Only
2971	Center Head Only
2972	Protractor Only

Order 2969, 2971, 2972 to make complete combination tools.

### L. 3009 Tape Measure

Retractable tape measures up to 10' lengths. Push button to lock tape. Includes belt clip. Easy to read scale.

### M. 2983 Thread Gauge

Used in checking the number of threads per inch for 22 different pitches (9 thru 40, plus 11½). Blades fold into body for storage.

### N. 2968 Angle Finder

Measures angle of most parts such as frame angle (pitch forward or backward) for setting truck front ends. Magnetic base holds tool in place. Graduated in ½ degree increments.

### O. 2964 Engine Warp and Alignment Gauge

Checks warp of head, block and manifold, and main bearing saddle alignment. Place bar gauge across block and check clearances with feeler gauges. Heavy-duty hardened and ground bar is ¾" in diameter, 26" long and accurate to within .002". Has hang-up hook and removable anti-roll block.

### P. 2965 Precision Straight Edge

35" long accurate straight edge checks warp of cylinder block and head. Long enough to check most diesel engines. Check clearances with feeler gauge. Enamored on all surfaces except measuring edge to protect against rust. Has hang-up hole for storage.

### Q. 2967 Hand Held Tachometer

Checks diesels, pumps, compressors, power take offs, farm and construction equipment revolution speed. Ideal where electric tachometer cannot be used. Hold rubber tip against end of rotating shaft. Read revolutions per minute directly from dial. Range 100 to 4,000 RPM (clockwise or counter-clockwise). 4½" long. 2¾" diameter dial.

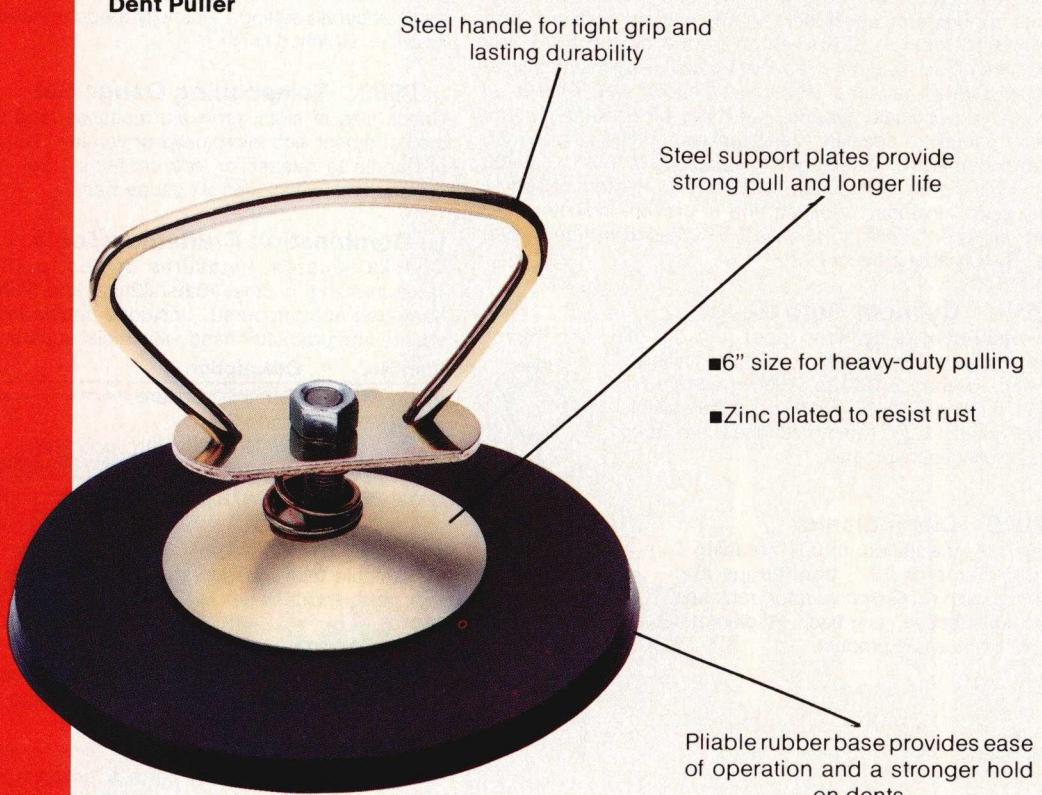
Replacement parts available:

2967-70 Rubber Tip - Pointed

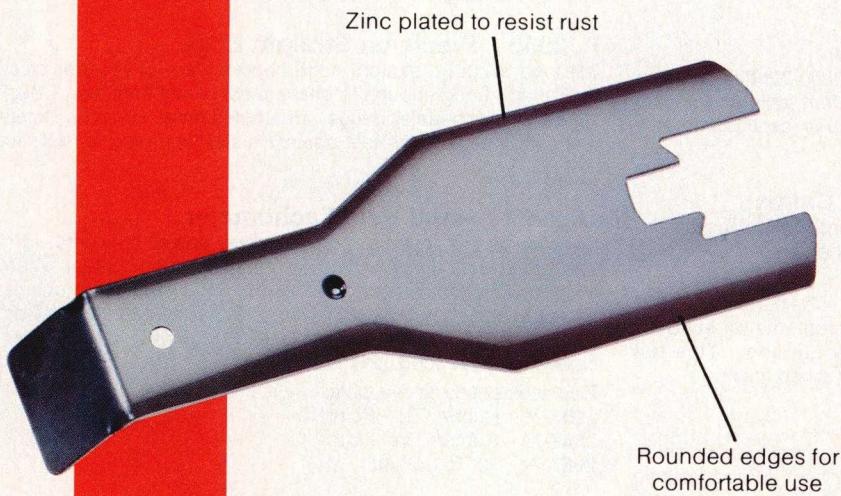
2967-71 Rubber Tip - Flat

2967-72 12" Ext. Shaft

**KD 2761  
Deluxe  
Dent Puller**



**KD 431  
Door Handle/  
Window Lift  
Remover**



**K-D Tools®**

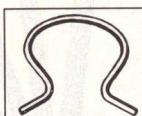
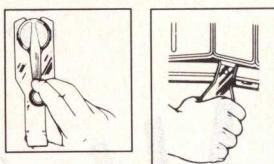
**BODY TOOLS**





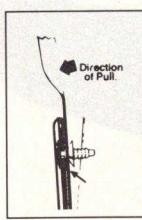
## A. 431 Door Handle and Window Lift Remover

Compresses door handle spring clip far enough so that handle can be removed while spring clip remains on handle. Fits GM, Ford and other cars using type of clip shown. Reverse end of tool to disengage clip holding door upholstery panels.



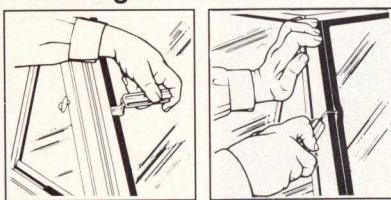
## B. 2822 Trim Pad Removing Tool

Reaches behind trim panel on GM and other cars and grips plastic fastener. Removes trim without damage.



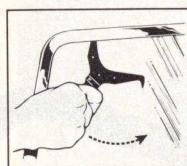
## C. 2037 Window Molding Remover

Removes clips and spreads rubber gasket on Chrysler windows. Rounded point spreads zipper type gaskets.



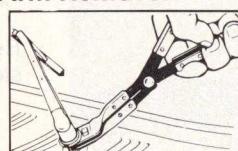
## D. 2038 Window Molding Remover

Removes window molding clips on GM, Ford, and AMC's. Place jaw flat against glass. Locate clips and roll them out with tip, keeping jaw flat to glass.



## E. 2039 Windshield Wiper Arm Remover

Removes wiper arm on many domestic and import cars. Protective pad on bottom jaw will not scratch painted surface. Place jaws between wiper arm and shaft and squeeze handles to remove.



## F. 3134 Super Brush

Use with electric drill for removing rust, dirt and other foreign material on automotive rims. Can also be used for light scale and rust during body repair work. Unique style brush is more aggressive and will not give or fray like typical brushes. Super Brush will last up to four times longer. Provides the stiffness to clean unwanted material from tight areas and creases where normal brushes will mushroom and prevent proper cleaning. Brush face is 3" in diameter and is 1/4" thick, with a 1/4" shank.

**Caution: Wear safety goggles.**

## G. 2043 Tapered Reamer

Reams holes  $\frac{1}{8}$ " to  $\frac{1}{2}$ " in diameter. Deburs, aligns, and enlarges holes. Accurately ground tempered tool steel. Overall blade length is  $3\frac{1}{2}$ ". Comfortable plastic grip handle. Always turn clockwise. Use cutting oil.

## H. 2044 Tapered Reamer

Reams holes  $\frac{7}{16}$ " to 1" in diameter. Deburs, aligns, and enlarges holes. T-handle applies steady, even pressure. Accurately ground tempered tool steel. Overall blade length is  $3\frac{5}{8}$ ". Always turn clockwise. Use cutting oil.

## I. 2290 Body Dent Remover

Pulls dented sheet metal back into place. Drill a hole in the deepest part of the dent and insert hook or self-threading screw tip. Tap lightly with the  $2\frac{1}{2}$  lb. slide hammer to remove dent. 13" long shaft permits high pulling force. See special tips 2762 and 2763. Slide hammer has  $\frac{1}{2}$ "-13 UNC thread.

**Caution: Wear safety glasses.**

Replacement parts available:

2290-70 Hook and Screw Package

2290-76 Nose Nut

## J. 2762 Metal Piercing Dent Puller Tip

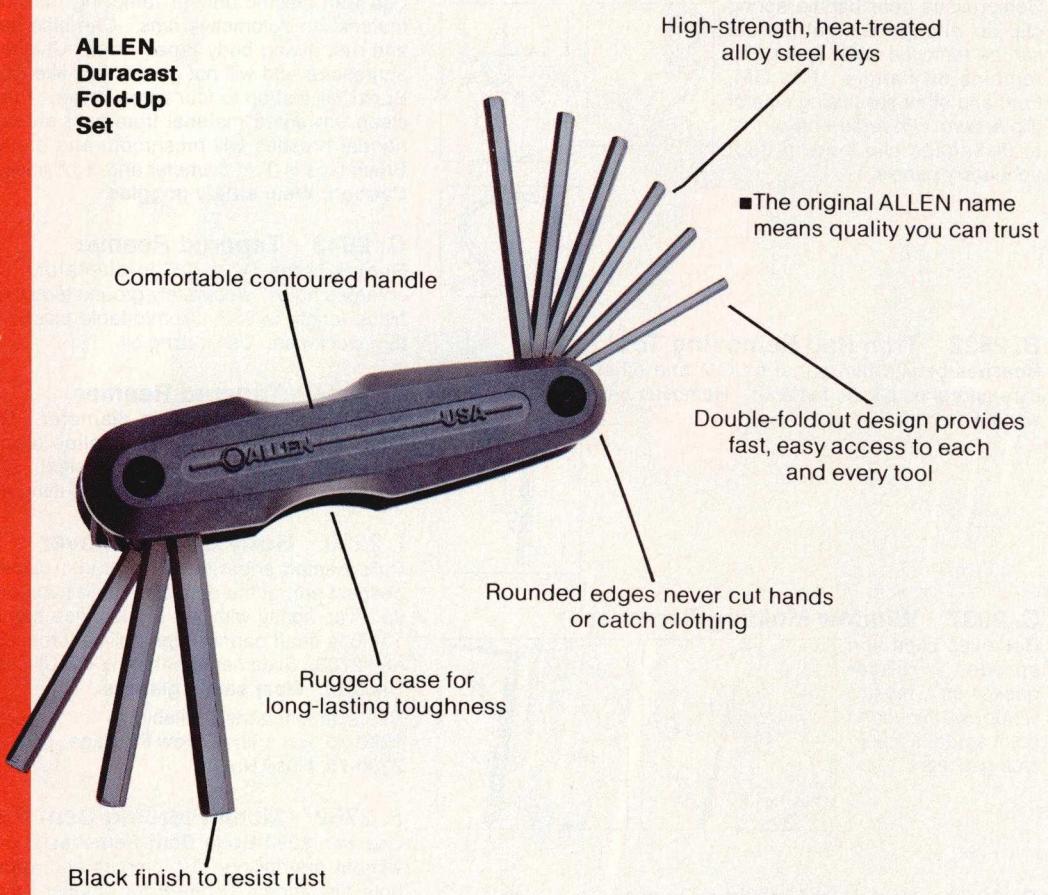
Use with 2290 Body Dent Remover to pull dents out of metal without pre-drilling. Tip pierces and grips metal with minimal hole distortion. Tapered for smaller holes. Heat treated for strength. Internal thread is  $\frac{1}{2}$ "-13 UNC.

## K. 2763 Heavy-Duty Dent Puller Tip

Use with 2290 Body Dent Remover to pull severe dents out of metal. Tip has deep threads for positive hold and minimal hole distortion. Heat treated for strength. Internal thread is  $\frac{1}{2}$ "-13 UNC.

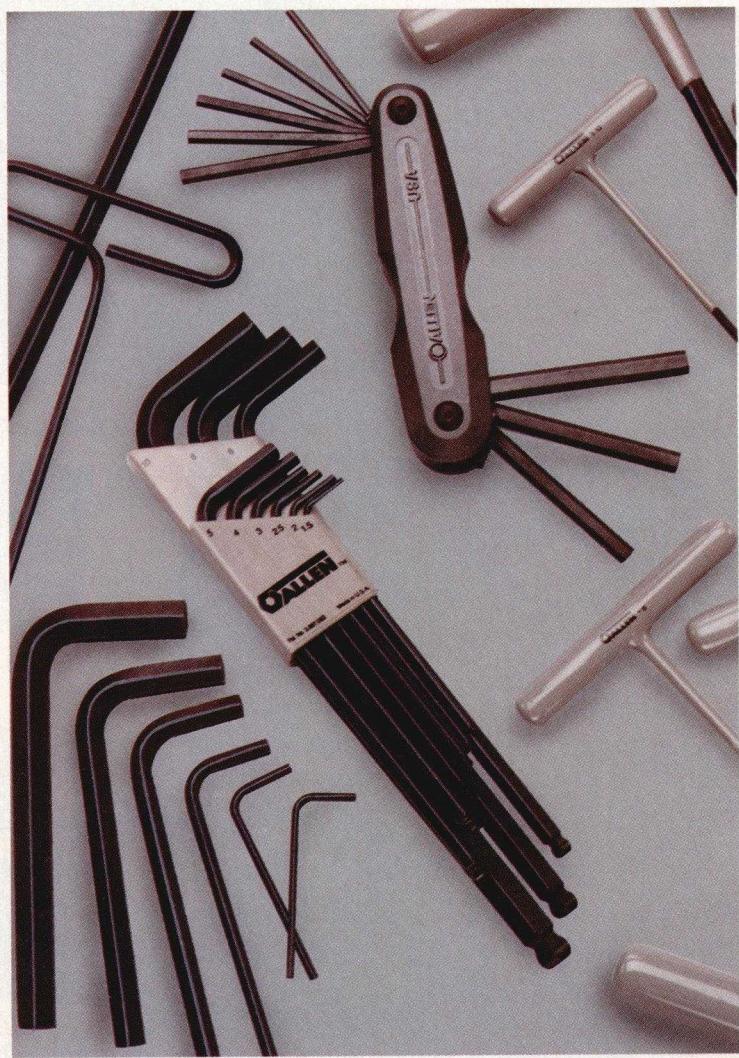
## L. 2761 Deluxe 6" Dent Puller

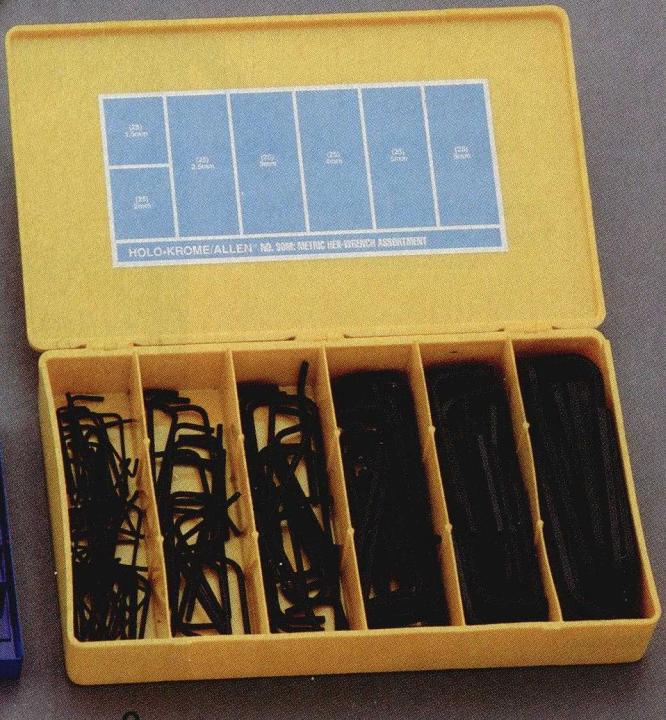
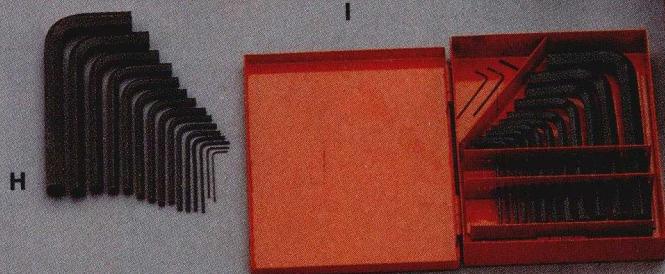
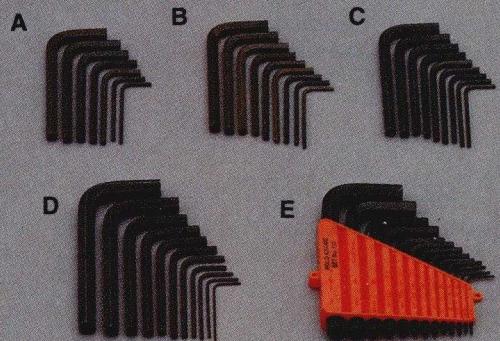
Easily pops dented hoods, doors and fenders into place. Suction disc is 6" in diameter with steel handle and steel support plates for strong pull. Works on nearly every dent where the sheet metal has not been creased. Lift edge to release suction. Also works as a glass holder.

**ALLEN**  
**Duracast**  
**Fold-Up**  
**Set****ALLEN**  
**Multi-Angle**  
**Hex Key**

**ALLEN**™

**ALLEN FASTENING TOOLS**





**A. 56004 7 Piece ALLEN SAE Short Arm Hex Key Set**

Contains seven popular SAE short arm keys in a vinyl snap pouch. Keys are made of heat treated alloy steel. Sizes include:  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ".

**B. 56122 9 Piece ALLEN SAE Short Arm Hex Key Set**

Set includes nine short arm keys in sizes:  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{7}{64}$ ",  $\frac{1}{8}$ ",  $\frac{9}{64}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ". Keys are made of heat treated alloy steel. Vinyl snap pouch included.

**C. 29 K-D 9 Piece Hex Key Set**

Nine piece set drives fractional size hex socket fasteners. Heat treated alloy steel. Hex sizes:  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{7}{64}$ ",  $\frac{1}{8}$ ",  $\frac{9}{64}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ". Packaged in vinyl storage pouch.

**D. 56030 11 Piece ALLEN SAE Short Arm Hex Key Set**

Eleven popular short arm keys in sizes: .050",  $\frac{1}{16}$ ",  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ",  $\frac{9}{64}$ ",  $\frac{5}{16}$ ". Made of heat treated alloy steel. Package in vinyl snap pouch.

**E. 56080 13 Piece ALLEN SAE Short Arm Hex Key Set**

Contains 13 short arm keys in a handy plastic molded case. Sizes include: .050",  $\frac{1}{16}$ ",  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{7}{64}$ ",  $\frac{1}{8}$ ",  $\frac{9}{64}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ",  $\frac{9}{64}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ". Keys are made of heat treated alloy steel.

**F. 30 K-D 13 Piece Hex Key Set**

13 SAE size hex keys in a handy plastic case. Keys are heat treated alloy steel. Set screw and cap screw application chart included. Hex sizes: .050",  $\frac{1}{16}$ ",  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{7}{64}$ ",  $\frac{1}{8}$ ",  $\frac{9}{64}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ",  $\frac{9}{64}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ".

**G. 2582 K-D Hex Wrench Caddy Pack**

Tension from coil spring around stand holds 13 hex key sizes from .05" to  $\frac{3}{8}$ ". Caddy stands upright on flat surfaces. Sizes marked on caddy. Keeps key in place. Keys are heat treated alloy steel. Hex sizes: .050",  $\frac{1}{16}$ ",  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{7}{64}$ ",  $\frac{1}{8}$ ",  $\frac{9}{64}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ",  $\frac{9}{64}$ ",  $\frac{5}{16}$ ", and  $\frac{3}{8}$ ".

**H. 56032 15 Piece ALLEN SAE Short Arm Hex Key Set**

Set contains 15 short arm keys in a vinyl snap pouch. Made of heat treated alloy steel. Sizes include: .028", .035", .050",  $\frac{1}{16}$ ",  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{7}{64}$ ",  $\frac{1}{8}$ ",  $\frac{9}{64}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ",  $\frac{9}{64}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ".

**I. 56028 15 Piece ALLEN SAE Short Arm Hex Key Set**

Includes 15 popular short arm keys in a sturdy case. Keys are made of heat treated alloy steel. Sizes are: .028", .035", .050",  $\frac{1}{16}$ ",  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{7}{64}$ ",  $\frac{1}{8}$ ",  $\frac{9}{64}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ",  $\frac{9}{64}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ".

**J. 56882 270 Piece ALLEN SAE Hex Key Assortment**

An assortment of nine popular sizes of hex keys. Made of heat treated alloy steel. Packaged in a convenient plastic box.

Item No.	Size	Quantity
67005	$\frac{5}{64}$ "	50
67006	$\frac{3}{32}$ "	50
67008	$\frac{1}{8}$ "	50
67010	$\frac{5}{32}$ "	25
67011	$\frac{3}{16}$ "	25
67012	$\frac{7}{32}$ "	25
67013	$\frac{1}{4}$ "	25
67020	$\frac{9}{64}$ "	10
67024	$\frac{3}{8}$ "	10

**K. 46 K-D 8 Piece Metric Hex Key Set**

Eight piece set drives metric size hex socket fasteners. Heat treated alloy steel. Hex sizes: 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm. Packaged in vinyl storage pouch.

**L. 56015 9 Piece ALLEN Metric Arm Hex Key Set**

Nine popular metric sized keys in a vinyl snap pouch. Keys are made of heat treated alloy steel. Sizes include: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm.

**M. 56008 9 Piece ALLEN Metric Short Arm Hex Key Set**

Set includes nine short arm keys made of heat treated alloy steel. Sizes include: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm. Packaged in a plastic holder.

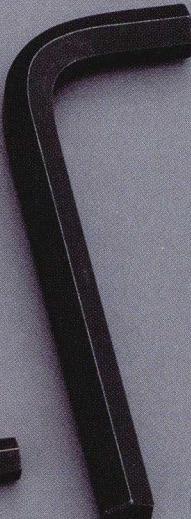
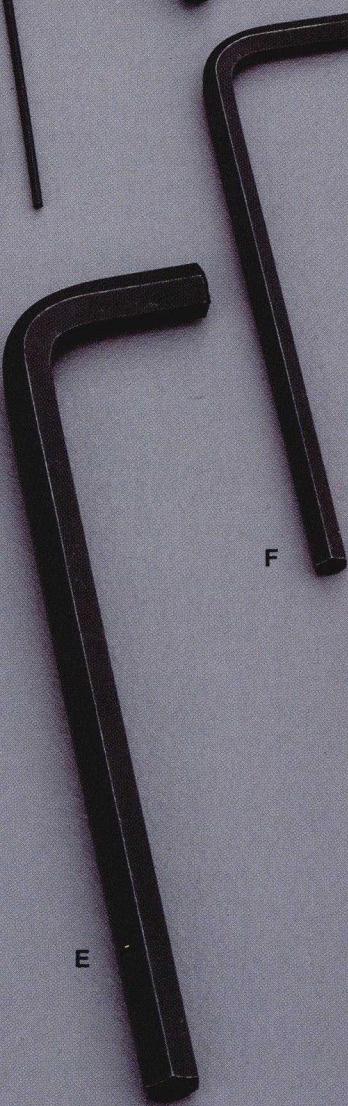
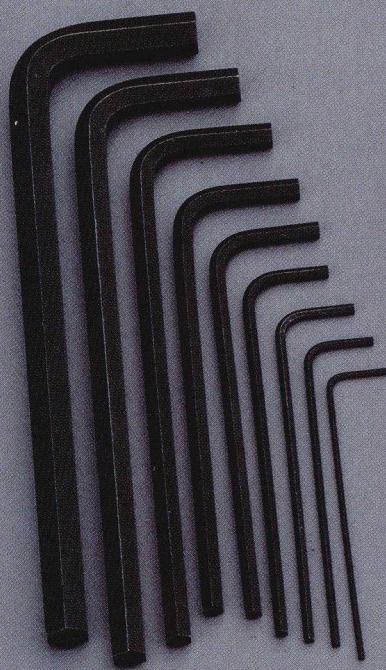
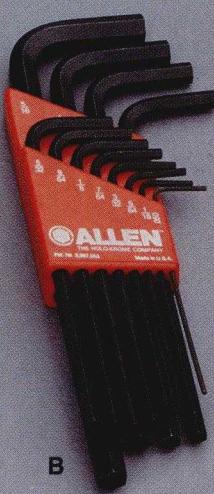
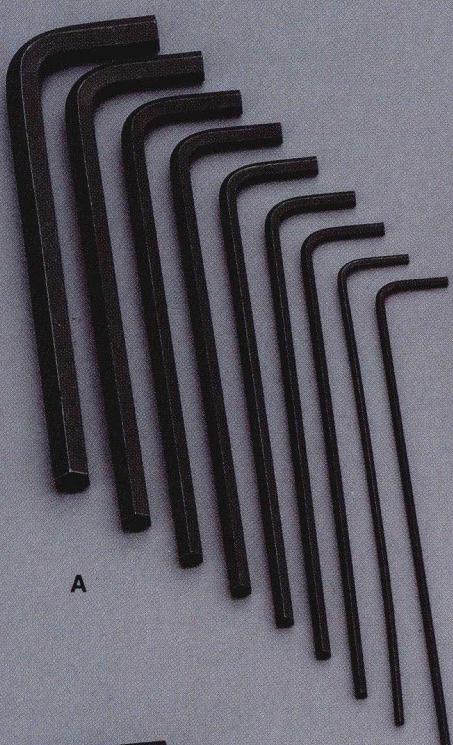
**N. 56038 12 Piece ALLEN Metric Short Arm Hex Key Set**

Contains 12 metric keys in a sturdy metal box. Keys made of heat treated alloy steel. Sizes include: .07mm, .09mm, 1.3mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm.

**O. 56890 175 Piece ALLEN Metric Short Arm Hex Key Assortment**

An assortment of seven popular metric keys packaged in a handy, compact box. Made of heat treated alloy steel.

Item No.	Size	Quantity
67215	1.5mm	25
67220	2mm	25
67225	2.5mm	25
67230	3mm	25
67240	4mm	25
67250	5mm	25
67256	6mm	25



### A. 56034 9 Piece ALLEN SAE Long Arm Hex Key Set

Set contains nine keys in sizes:  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ". Made of heat treated alloy steel. Includes vinyl snap pouch.

### B. 56152 12 Piece ALLEN SAE Long Arm Hex Key Set

Includes 12 long arm keys in a sturdy plastic holder. Sizes include: .050",  $\frac{1}{16}$ ",  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{7}{64}$ ",  $\frac{1}{8}$ ",  $\frac{9}{64}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ". Keys are made of heat treated alloy.

### C. 56013 13 Piece ALLEN SAE Long Arm Hex Key Set

Thirteen popular long arm sizes packaged in a vinyl snap pouch. Keys are made of heat treated alloy steel. Sizes: .050",  $\frac{1}{16}$ ",  $\frac{5}{64}$ ",  $\frac{3}{32}$ ",  $\frac{7}{64}$ ",  $\frac{1}{8}$ ",  $\frac{9}{64}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{7}{32}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ".

### D. 56018 9 Piece ALLEN Metric Long Arm Hex Key Set

Set includes nine metric long arm keys in sizes: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm. Made of heat treated alloy steel. Includes vinyl snap pouch.

### E. SAE Hex Keys - Extra Long Arm

Item No.	Size	Lbs.	Long Arm Length	Short Arm Length
67 305	$\frac{5}{64}$ "	.009	6"	$\frac{9}{16}$ "
67 306	$\frac{3}{32}$ "	.014	6"	$2\frac{1}{32}$ "
67 307	$\frac{7}{64}$ "	.025	6"	$2\frac{3}{32}$ "
67 308	$\frac{1}{8}$ "	.040	6"	$\frac{3}{4}$ "
67 309	$\frac{9}{64}$ "	.059	6"	$1\frac{3}{16}$ "
67 310	$\frac{5}{32}$ "	.080	6"	$2\frac{7}{32}$ "
67 312	$\frac{3}{16}$ "	.107	6"	$1\frac{5}{16}$ "
67 314	$\frac{7}{32}$ "	.171	6"	1"
67 316	$\frac{1}{4}$ "	.252	$5\frac{15}{16}$ "	$1\frac{3}{32}$ "
67 320	$\frac{5}{16}$ "	.565	$5\frac{15}{16}$ "	$1\frac{3}{16}$ "
67 324	$\frac{3}{8}$ "	.982	$5\frac{15}{16}$ "	$1\frac{3}{8}$ "

### F. SAE Hex Keys - Long Arm

Item No.	Size	Lbs.	Long Arm Length	Short Arm Length
67 103	.050"	.003	$2\frac{7}{8}$ "	$\frac{1}{2}$ "
67 104	$\frac{1}{16}$ "	.004	3"	$\frac{9}{16}$ "
67 105	$\frac{5}{64}$ "	.005	$3\frac{3}{16}$ "	$\frac{39}{64}$ "
67 106	$\frac{3}{32}$ "	.007	$3\frac{3}{8}$ "	$2\frac{1}{32}$ "
67 107	$\frac{7}{64}$ "	.013	$3\frac{1}{2}$ "	$1\frac{1}{16}$ "
67 108	$\frac{1}{8}$ "	.017	$3\frac{3}{4}$ "	$\frac{3}{4}$ "
67 109	$\frac{9}{64}$ "	.022	$3\frac{7}{8}$ "	$1\frac{3}{16}$ "
67 110	$\frac{5}{32}$ "	.028	$4\frac{1}{8}$ "	$2\frac{7}{32}$ "
67 112	$\frac{3}{16}$ "	.044	$4\frac{1}{2}$ "	$1\frac{5}{16}$ "
67 114	$\frac{7}{32}$ "	.069	$4\frac{7}{8}$ "	$1\frac{1}{32}$ "
67 116	$\frac{1}{4}$ "	.097	$5\frac{1}{4}$ "	$1\frac{1}{8}$ "
67 120	$\frac{5}{16}$ "	.172	6"	$1\frac{1}{4}$ "
67 124	$\frac{3}{8}$ "	.278	$6\frac{3}{4}$ "	$1\frac{3}{8}$ "
67 128	$\frac{7}{16}$ "	.420	$7\frac{1}{2}$ "	$1\frac{1}{2}$ "
67 132	$\frac{1}{2}$ "	.664	$8\frac{1}{4}$ "	$1\frac{5}{8}$ "
67 134	$\frac{9}{16}$ "	.828	9"	$1\frac{3}{4}$ "
67 136	$\frac{5}{8}$ "	1.850	$9\frac{3}{4}$ "	$1\frac{7}{8}$ "
67 138	$\frac{3}{4}$ "	1.856	$11\frac{1}{4}$ "	$2\frac{1}{8}$ "
67 140	$\frac{7}{8}$ "	2.849	$12\frac{3}{4}$ "	$2\frac{3}{8}$ "
67 142	1"	4.162	$14\frac{1}{4}$ "	$2\frac{5}{8}$ "

### G. Metric Hex Keys - Long Arm

Item No.	Size	Lbs.	Long Arm Length	Short Arm Length
67 153	1.5mm	.004	$3\frac{1}{32}$ "	$1\frac{7}{32}$ "
67 154	2mm	.005	$3\frac{15}{64}$ "	$5\frac{5}{64}$ "
67 155	2.5mm	.009	$3\frac{31}{64}$ "	$1\frac{1}{16}$ "
67 156	3mm	.014	$3\frac{7}{8}$ "	$\frac{3}{4}$ "
67 157	4mm	.028	$4\frac{3}{32}$ "	$6\frac{1}{64}$ "
67 158	5mm	.047	$4\frac{37}{64}$ "	$1\frac{5}{64}$ "
67 159	6mm	.084	$5\frac{7}{16}$ "	$1\frac{7}{32}$ "
67 161	8mm	.166	$6\frac{13}{64}$ "	$1\frac{3}{8}$ "
67 163	10mm	.306	$6\frac{39}{64}$ "	$1\frac{17}{32}$ "
67 164	12mm	.547	$6\frac{7}{8}$ "	$1\frac{19}{32}$ "

### H. SAE Hex Keys - Short Arm

Item No.	Size	Lbs.	Long Arm Length	Short Arm Length
67 001	.028"	.001	$1\frac{7}{32}$ "	$\frac{7}{32}$ "
67 002	.035"	.001	$1\frac{7}{32}$ "	$1\frac{1}{32}$ "
67 003	.050"	.001	$1\frac{21}{32}$ "	$1\frac{7}{32}$ "
67 004	$\frac{1}{16}$ "	.002	$1\frac{3}{4}$ "	$\frac{9}{16}$ "
67 005	$\frac{5}{64}$ "	.003	$1\frac{7}{8}$ "	$3\frac{3}{64}$ "
67 006	$\frac{3}{32}$ "	.005	2"	$2\frac{1}{32}$ "
67 007	$\frac{7}{64}$ "	.007	$2\frac{1}{8}$ "	$4\frac{5}{64}$ "
67 008	$\frac{1}{8}$ "	.010	$2\frac{1}{4}$ "	$\frac{3}{4}$ "
67 009	$\frac{9}{64}$ "	.014	$2\frac{3}{8}$ "	$1\frac{3}{16}$ "
67 010	$\frac{5}{32}$ "	.019	$2\frac{1}{2}$ "	$2\frac{7}{32}$ "
67 011	$\frac{3}{16}$ "	.031	$2\frac{3}{4}$ "	$1\frac{15}{16}$ "
67 012	$\frac{7}{32}$ "	.047	3"	$1\frac{1}{32}$ "
67 013	$\frac{1}{4}$ "	.066	$3\frac{1}{4}$ "	$1\frac{1}{8}$ "
67 020	$\frac{5}{16}$ "	.120	$3\frac{3}{4}$ "	$1\frac{1}{4}$ "
67 024	$\frac{3}{8}$ "	.193	$4\frac{1}{4}$ "	$1\frac{3}{8}$ "
67 028	$\frac{7}{16}$ "	.292	$4\frac{3}{4}$ "	$1\frac{1}{2}$ "
67 032	$\frac{1}{2}$ "	.421	$5\frac{1}{4}$ "	$1\frac{5}{8}$ "
67 036	$\frac{9}{16}$ "	.582	$5\frac{3}{4}$ "	$1\frac{3}{4}$ "
67 040	$\frac{5}{8}$ "	.782	$6\frac{13}{64}$ "	$1\frac{7}{16}$ "
67 048	$\frac{3}{4}$ "	1.400	$7\frac{13}{64}$ "	$2\frac{1}{8}$ "
67 056	$\frac{7}{8}$ "	2.010	$8\frac{13}{64}$ "	$2\frac{3}{8}$ "
67 064	1"	2.942	$9\frac{13}{64}$ "	$2\frac{5}{8}$ "

### I. Metric Hex Keys - Short Arm

Item No.	Size	Lbs.	Long Arm Length	Short Arm Length
67 215	1.5mm	.003	$1\frac{3}{4}$ "	$1\frac{7}{32}$ "
67 220	2mm	.004	$1\frac{15}{64}$ "	$\frac{5}{8}$ "
67 225	2.5mm	.006	$2\frac{3}{4}$ "	$1\frac{1}{16}$ "
67 230	3mm	.009	$2\frac{7}{16}$ "	$\frac{3}{4}$ "
67 240	4mm	.019	$2\frac{21}{32}$ "	$6\frac{1}{64}$ "
67 250	5mm	.031	$3\frac{5}{64}$ "	$1\frac{5}{64}$ "
67 256	6mm	.059	$3\frac{15}{32}$ "	$1\frac{7}{32}$ "
67 258	8mm	.156	$3\frac{27}{32}$ "	$1\frac{3}{8}$ "
67 260	10mm	.356	$4\frac{19}{64}$ "	$1\frac{17}{32}$ "
67 262	12mm	.357	$4\frac{27}{64}$ "	$1\frac{17}{64}$ "
67 264	14mm	.564	$5\frac{3}{8}$ "	$2\frac{7}{64}$ "
67 267	17mm	.892	$6\frac{9}{64}$ "	$2\frac{27}{64}$ "
67 269	19mm	1.381	$6\frac{29}{32}$ "	$2\frac{45}{64}$ "



**A. 40 K-D 7 Piece Folding Hex Key Pack**

Seven most popular size hex keys in a folding pocket size case. Keys are heat treated alloy steel. Overall Length 3 $\frac{3}{4}$ " folded. Hex sizes: .050", 1/16", 5/64", 3/32", 1/8", 5/32", 3/16".

**B. 56346 9 Piece ALLEN Small Folding Hex Key Set**

Set includes nine SAE hex keys in a folding pocket-size DURACAST case. Keys made of heat treated alloy steel. Overall length 3 $\frac{1}{2}$ ". Sizes include: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16".

**C. 56347 9 Piece ALLEN Large Folding Hex Key Set**

Nine large hex keys in a rugged DURACAST, pocket-size case. Set features contoured handle and "double-foldout" design. Overall length 4 $\frac{1}{4}$ ". Sizes include: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" 3/16", 7/32", 1/4".

**D. 45 K-D 6 Piece Metric Folding Hex Key Pack**

Six popular metric size hex keys in a folding pocket size case. Keys are heat treated alloy steel. Overall length 3 $\frac{7}{8}$ " folded. Hex sizes: 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm.

**E. 56349 7 Piece ALLEN Metric Folding Hex Key Set**

Set includes seven popular metric keys in sizes: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm. Keys are made of heat treated alloy steel. Packaged in a rugged DURACAST case. Overall length 3 $\frac{1}{2}$ ".

**F. 2902 K-D Folding Torx® Key Set**

Includes seven popular size Torx® keys in a folding pocket-size case. Keys are made of heat-treated alloy steel. Overall length is 3 $\frac{1}{2}$ " folded. Key sizes include: T-10, T-15, T-20, T-25, T-27, T-30, and T-40.

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**G. 56348 7 Piece ALLEN Folding Torx® Key Set**

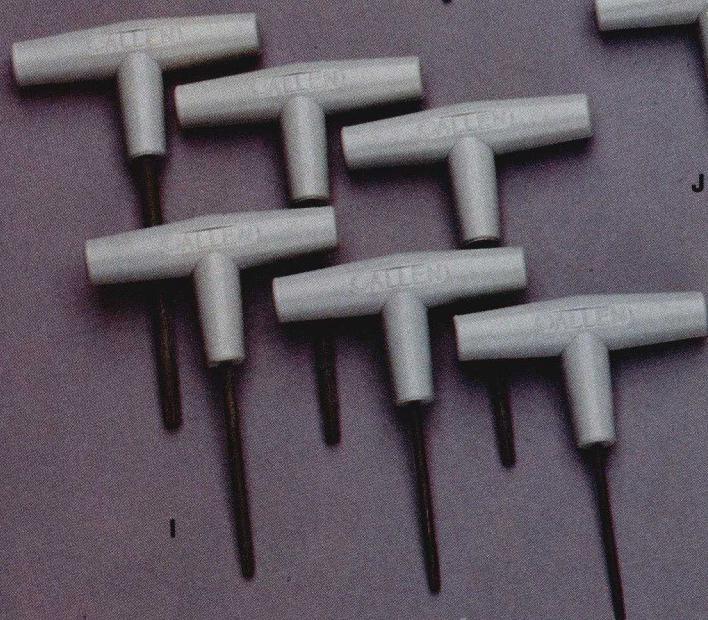
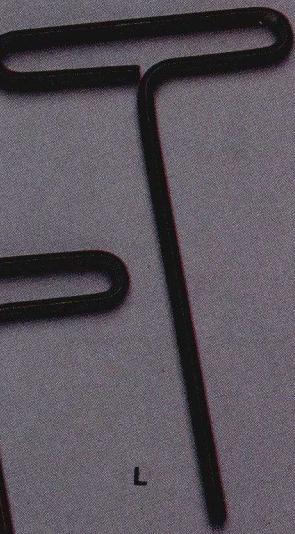
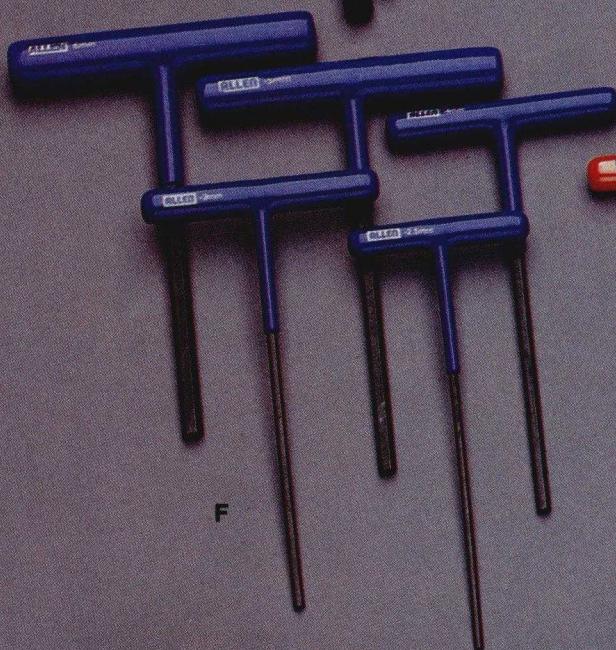
Contains seven Torx® keys in a rugged DURACAST, pocket-size case. Sizes include: T-10, T-15, T-20, T-25, T-27, T-30, T-40. Keys are made of heat treated alloy steel. Overall length: 4 $\frac{1}{4}$ "

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

**H. K-D Torx® Keys**

Item No.	Description	Length	Wt.
41 1307C	T-7	2 $\frac{1}{2}$ "	.01 lb.
41 1308C	T-8	2 $\frac{1}{2}$ "	.01 lb.
41 1309C	T-9	2 $\frac{1}{2}$ "	.01 lb.
41 1310C	T-10	2 $\frac{1}{2}$ "	.01 lb.
41 1315C	T-15	2 $\frac{1}{2}$ "	.02 lb.
41 1320C	T-20	2 $\frac{1}{2}$ "	.02 lb.
41 1325C	T-25	2 $\frac{3}{4}$ "	.03 lb.
41 1327C	T-27	3"	.03 lb.
41 1330C	T-30	3 $\frac{1}{8}$ "	.04 lb.
41 1340C	T-40	3 $\frac{3}{8}$ "	.07 lb.
41 1345C	T-45	4 $\frac{1}{8}$ "	.10 lb.
41 1350C	T-50	4 $\frac{3}{4}$ "	.14 lb.
41 1355C	T-55	4 $\frac{3}{4}$ "	.15 lb.

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.



**A. 56340 12 Piece ALLEN Multi-Angle Hex Key Set**

Set contains 12 popular multi-angle wrenches in a plastic holder. Keys are made of heat treated alloy steel. Key sizes include: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16".

**B. 56369 9 Piece ALLEN Metric Multi-Angle Hex Key Set**

Nine multi-angle wrenches make up this popular set. Keys are made of heat treated alloy steel and packaged in a durable plastic holder. Key sizes include: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm.

**C. SAE Multi-Angle Long Arm Keys**

Item No.	Size	Lbs.
58300	.050"	.002
58302	1/16"	.004
58304	5/64"	.005
58306	3/32"	.007
58308	7/64"	.013
58310	1/8"	.017
58312	9/64"	.022
58314	5/32"	.028
58316	3/16"	.044
58318	7/32"	.069
58320	1/4"	.097
58322	5/16"	.172
58324	3/8"	.278

**D. Metric Multi-Angle Long Arm Keys**

Item No.	Size	Lbs.
58100	1.5mm	.004
58102	2mm	.005
58104	2.5mm	.009
58106	3mm	.014
58108	4mm	.028
58110	5mm	.047
58112	6mm	.084
58114	8mm	.166
58116	10mm	.306

**E. 56161 8 Piece ALLEN Cushion Grip T-Handle Set**

Cushion Grip set includes eight T-handles in sizes 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4". Large cushioned handles provide more torque and comfort. Drivers are made of heat treated alloy steel. Includes pouch.

**F. 56093 5 Piece ALLEN Metric Cushion Grip T-Handle Set**

Five metric Cushion Grip T-Handles packaged in a plastic pouch. Sizes include: 2.5mm, 3mm, 4mm, 5mm, 6mm. Drivers are made of heat treated alloy steel. Large cushioned handles provide more torque and comfort.

**G. Cushion Grip T-Handles**

Item No.	Size	Lbs.	Length
57300	3/32"	.08	6"
57302	7/64"	.08	6"
57304	1/8"	.09	6"
57306	9/64"	.12	6"
57308	5/32"	.13	6"
57310	3/16"	.28	6"
57312	7/32"	.34	6"
57314	1/4"	.32	6"

**H. Metric Cushion Grip T-Handles**

Item No.	Size	Lbs.	Length
57842	2.5mm	.100	150mm
57844	3mm	.150	150mm
57846	4mm	.160	150mm
57848	5mm	.200	150mm
57850	6mm	.240	150mm

**I. 56165 6 Piece ALLEN Torx® T-Handle Set**

Six Plas-T-Key® Torx® keys in sizes T-10, T-15, T-20, T-25, T-27, T-30. Plas-T-Key handles are molded of red butyrate for comfort and toughness. Drivers are made of heat treated alloy steel. Packaged in a pouch.

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

**J. Torx® Plas-T-Keys**

Item No.	Size	Lbs.
58950	T-10	2
58951	T-15	2
58952	T-20	2
58953	T-25	2.5
58954	T-27	2.5
58955	T-30	3

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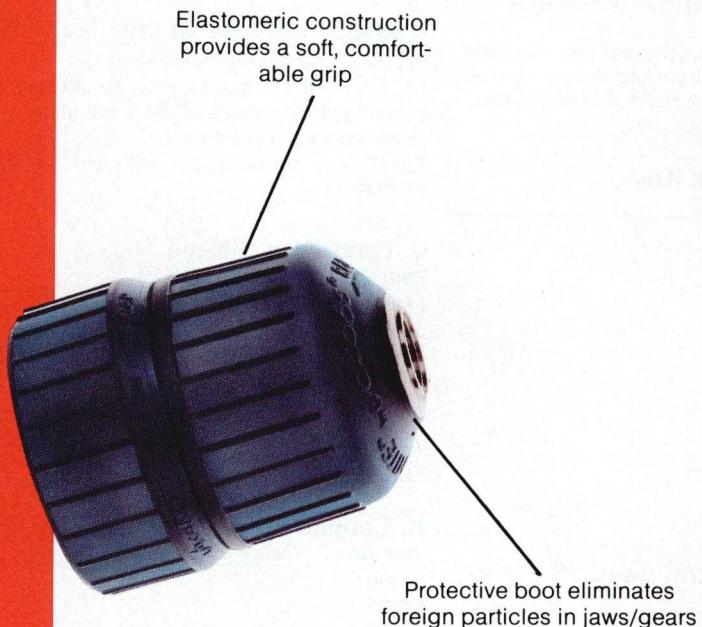
**K. Looped T-Handles**

Item No.	Description	Length
57320	3/32"	6"
57321	7/64"	6"
57322	1/8"	6"
57323	9/64"	6"
57324	5/32"	6"
57325	3/16"	6"
57326	7/32"	6"
57327	1/4"	6"
57328	5/16"	6"
57329	3/8"	6"

**L. Metric Looped T-Handles**

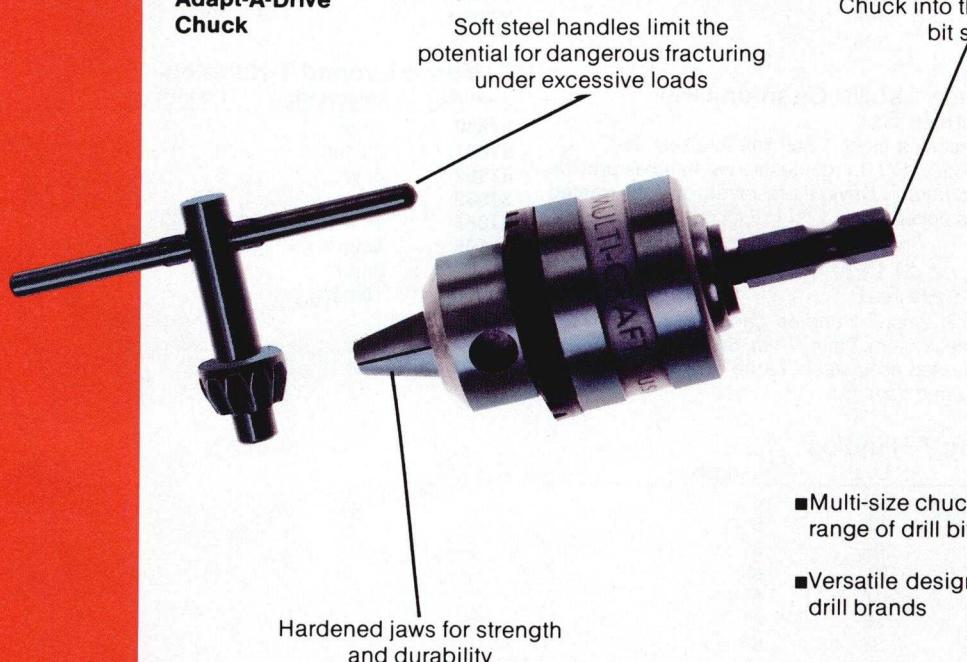
Item No.	Description	Length
57860	2mm	6"
57861	2.5mm	6"
57862	3mm	6"
57863	4mm	6"
57864	5mm	6"
57865	6mm	6"
57866	8mm	6"
57867	10mm	6"

**Jacobs® 030354  
Hand-Tite™  
Keyless Chuck**



- Hand tightens to dramatically reduce bit changeover time
- Non-rusting, high-performance plastic body resists impact damage
- Eliminates "lost-key" problems for all 3/8" variable speed cordless or cored power drills

**Jacobs® 030248  
Adapt-A-Drive™  
Chuck**

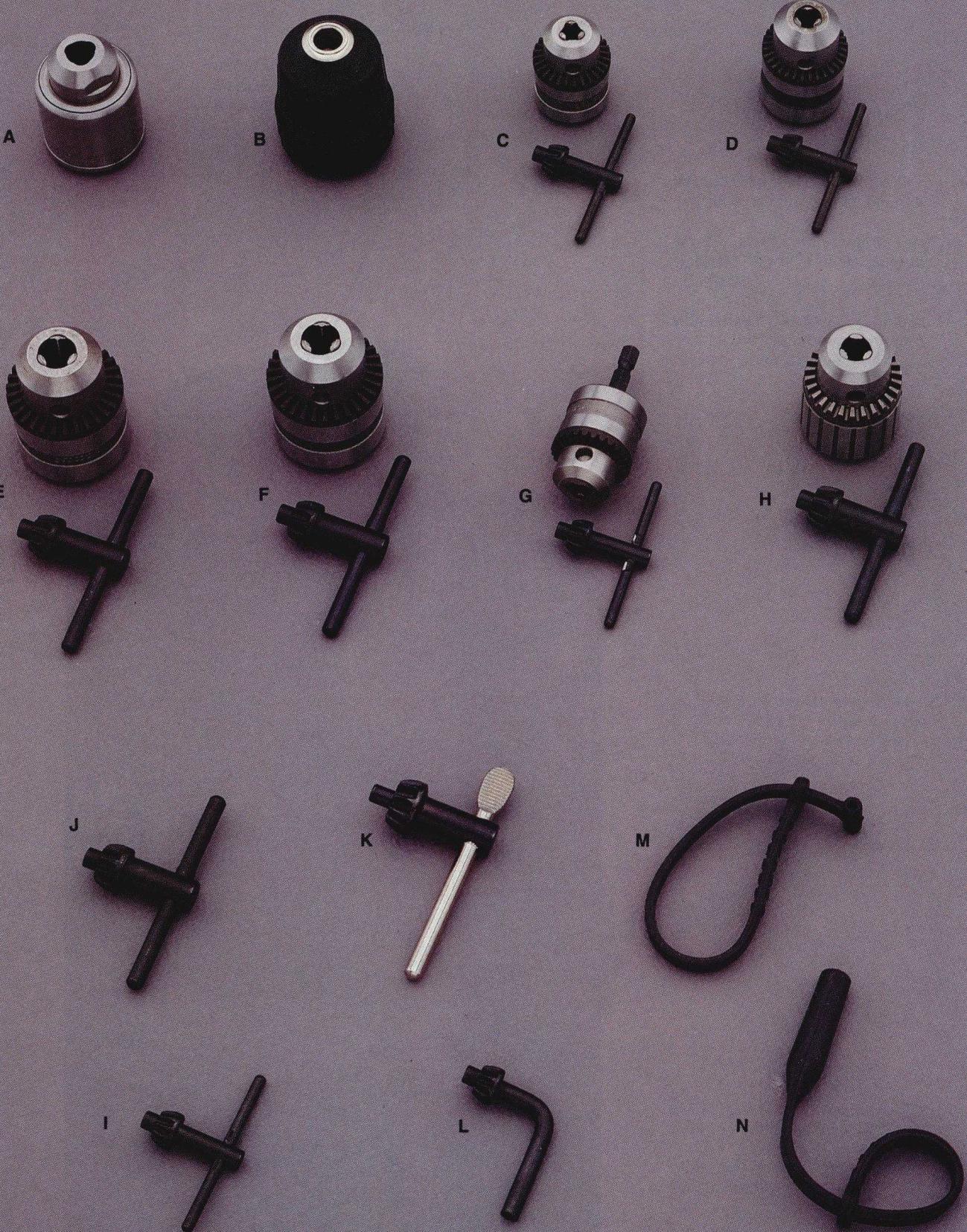


- Multi-size chuck accepts a wide range of drill bits up to 3/8"
- Versatile design fits most major drill brands

**Jacobs®**



**JACOBS® DRILL CHUCKS**



## Keyless Chucks

Jacobs® new technically advanced Keyless Chucks dramatically boost productivity, reducing bit changeover time while eliminating lost keys. Based on an exclusive, patented wrench-type mechanism, the Keyless Chuck achieves higher gripping power than standard keyed chucks, improving performance and accuracy. The revolutionary new Hand-Tite Keyless Chuck offers a unique elastomeric sure-grip sleeve with a self-centering bit device for faster bit changeover, with greater gripping power and accuracy than traditional keyed chucks.

- A. 030245  $\frac{3}{8}$ " Professional Keyless
- B. 030354  $\frac{3}{8}$ " Hand-Tite Keyless™

## Multi-Craft® Chucks

Features through-hardened jaws and a design found only in competitors' industrial-grade chucks. Unsurpassed performance and accuracy is ensured. Ideal for corded, cordless reversible or nonreversible power drills.

- C. 030243  $\frac{1}{4}$ " Multi-Craft® & Key
- D. 030247  $\frac{3}{8}$ " Multi-Craft® & Key
- E. 030598  $\frac{1}{2}$ " Multi-Craft®-24M & Key
- F. 030602  $\frac{1}{2}$ " Multi-Craft®-20m & Key

## G. 030248 Adapt-A-Drive Chuck™

Easily converts any cordless screwdriver into a multi-purpose mini-drill. Great for light drilling operations, starter holes or hard-to-reach spaces. An integral shank design locks the screwdriver bit into the socket. Accommodates a wide range of drill bits up to  $\frac{3}{8}$ " in size. Fits most major brands.

## H. 030246 Professional Duty Chuck

Professional quality and accuracy for the tradesman or serious home craftsman. One-piece sleeve eliminates crack between driving teeth often found in other designs. Through-hardened jaws provide hard, durable gripping surfaces.

## Keys and Accessories

Line includes all of the most popular sizes of keys and leashes that fit  $\frac{1}{4}$ ",  $\frac{3}{8}$ " or  $\frac{1}{2}$ " capacity chucks and keys. Key bodies and heads are case-hardened for toughness. Handles are not hardened for safety.

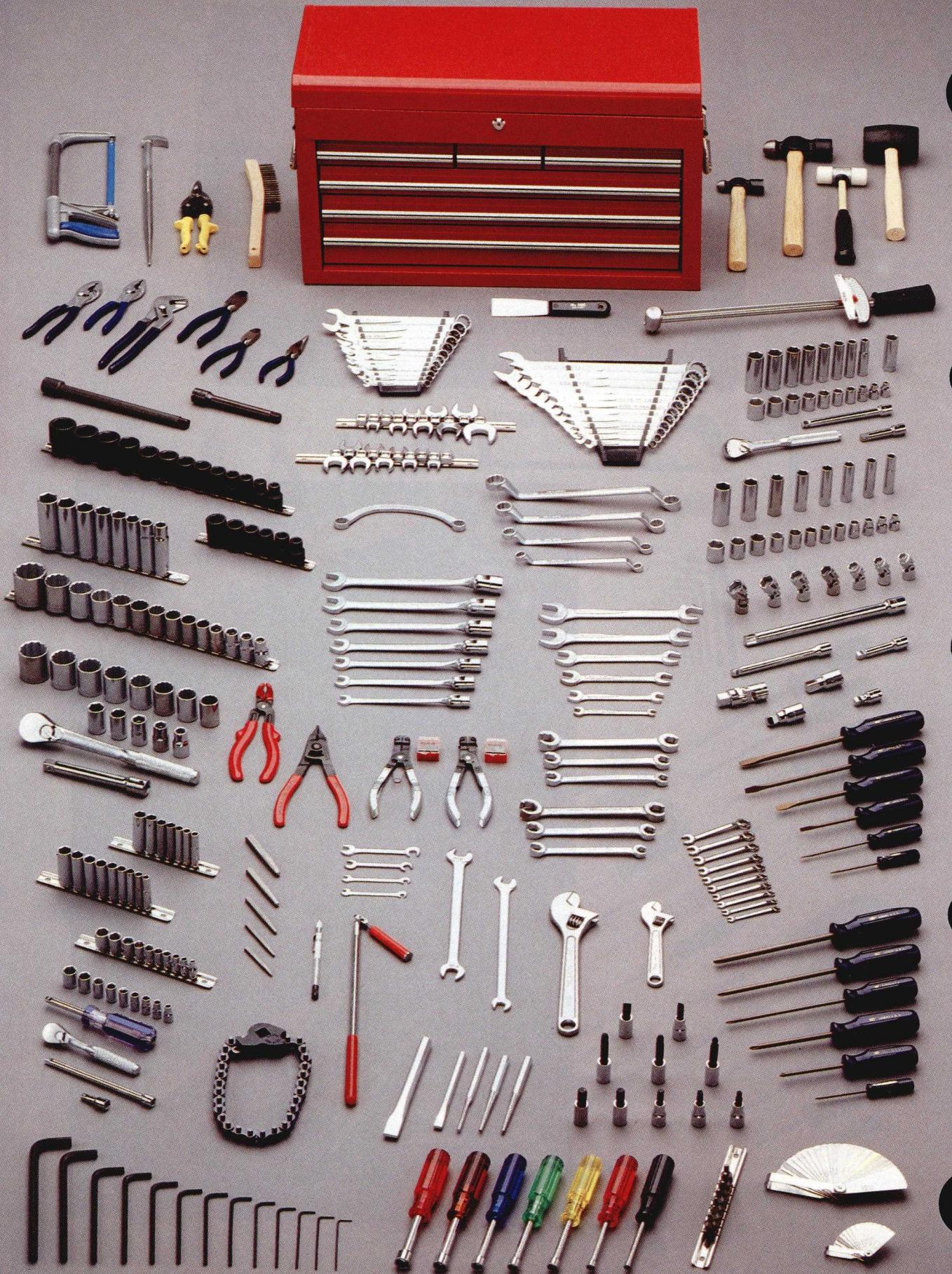
Item No.	Description	Pilot Size	Used On
I. 030249	Chuck Key	$\frac{1}{4}$ "	Fits most $\frac{1}{4}$ " & $\frac{3}{8}$ " Chucks
J. 030250	Chuck Key	$\frac{9}{32}$ "	Fits most $\frac{1}{2}$ " Chucks
K. 030251	Chuck Key	$\frac{1}{4}$ "	Fits most $\frac{1}{2}$ " Heavy Duty Chucks
L. 030605	Chuck Key	$\frac{1}{4}$ "	Fits most $\frac{1}{4}$ " & $\frac{3}{8}$ " Chucks for Cordless Drills
M. 030252	Keyleash	N/A	Fits most $\frac{1}{4}$ " & $\frac{3}{8}$ " Chuck Keys
N. 030259	Keyleash	N/A	Fits most $\frac{3}{8}$ " & $\frac{1}{2}$ " Chuck Keys

Item No.	Description	Capacity Range			Mount Thread	Key No.	Dimensions			Weight		
		Minimum in	Maximum in	Mount Thread			Closed Lgth in	Open Lgth in	Sleeve Dia. in	Ea.	oz	
mm	mm				mm	mm	mm	mm	mm			
030243	$\frac{1}{4}$ " Multi-Craft®	0	0	.250	6.5	3/8-24	KG1	2.04	51.8	1.57	39.9	3.5
030245	$\frac{3}{8}$ " Professional Keyless	0	0	.375	10	3/8-24	N/A	2.47	62.7	2.01	51.1	10
030354	$\frac{3}{8}$ " Hand-Tite™ Keyless	.062	1.5	.375	10	3/8-24	N/A	N/A	N/A	N/A	N/A	4.9
030246	$\frac{1}{2}$ " Professional Duty	.063	0.4	.313	8	3/8-24	KG1	2.42	61.5	1.89	48.0	8
030247	$\frac{3}{8}$ " Multi-Craft®	.063	1.6	.375	10	3/8-24	KG1	2.35	59.7	1.85	47.0	1.22
030248	Adapt-A-Drive™	0	0	.250	6.5	.250-HEX	KG1	3.050	77.5	1.57	39.9	1.125
030598	$\frac{1}{2}$ " Multi-Craft®	.078	2.0	.500	13	3/8-24	KK	2.81	71.4	2.23	56.6	1.61
030602	$\frac{1}{2}$ " Multi-Craft®	.078	2.0	.500	13	1/2-20	KK	2.81	71.4	2.23	56.6	1.61



**MASTER SETS**





- 91 570 324 Piece Master Tool Set with chest  
91 571 323 Piece Master Tool Set without chest**

### Contents:

#### 1/4" Drive Socket Sets

- 91 141 13 PC Socket Set  
91 100C 7 PC Deep Socket Set  
91 119C 10 PC Metric Socket Set  
91 108C 9 PC Metric Deep Socket Set**

#### 5/8" Drive Socket Sets

- 91 243 22 PC Socket Set  
91 290 7 PC Flex Socket Set  
91 263 12 PC Metric Socket Set  
91 269 8 PC Metric Deep Socket Set**

#### 1/2" Drive Socket Sets

- 91 321 15 PC Socket Set  
91 320 8 PC Deep Socket Set  
91 324C 14 PC Metric Socket Set  
91 304C 13 PC Deep Impact Socket Set  
91 303C 6 PC Metric Impact Socket Set**

#### Screwdriver Sets

- 40 916 6 PC Phillips Screwdriver Set  
40 936 6 PC Slotted Screwdriver Set  
40 901 7 PC Nut Driver Set**

#### Punch and Chisel Sets

- 33 911 5 PC Punch and Chisel Set**

#### Wrench Sets

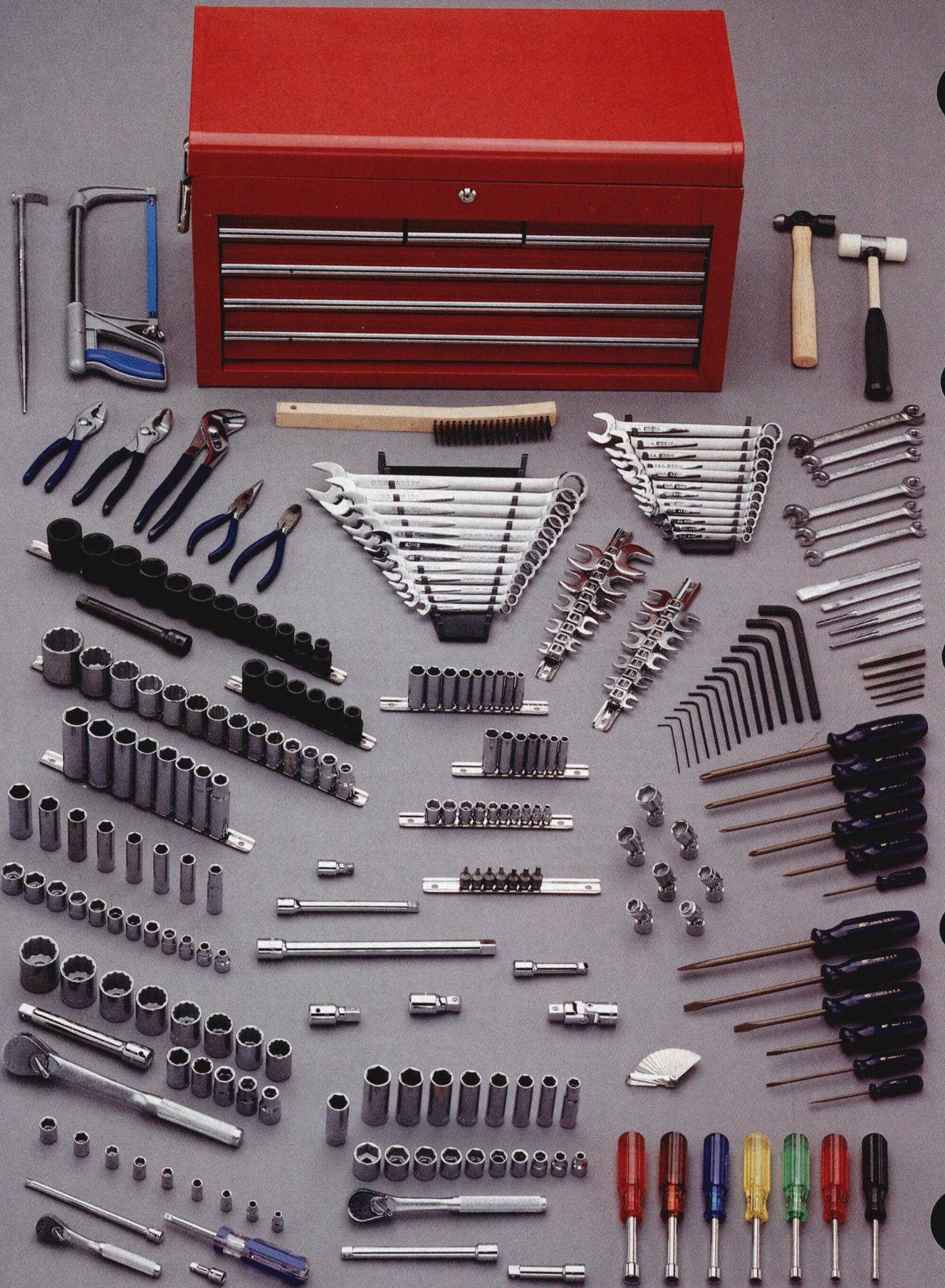
- 92 343 12 PC Combination Wrench Set  
92 341 12 PC Metric Combination Wrench Set  
92 170 7 PC Combination Open End/Socket Wrench Set  
92 106 6 PC Open End Wrench Set  
92 310 10 Midget Combination Wrench Set  
92 520C 10 PC 3/8" Dr. Crowfoot Wrench Set  
92 524C 10 PC 3/8" Dr. Metric Crowfoot Wrench Set  
92 530 3 PC Flare Nut Wrench Set  
92 535 3 PC Metric Flare Nut Wrench Set  
92 211 4 PC Deep Offset Box Wrench Set**

#### Pliers

- 45 708 8" Slip Joint Pliers  
45 707 6" Slip Joint Pliers  
45 700 6" Diagonal Cutters  
45 701 7" Diagonal Cutters  
45 704 6 1/2" Long Nose Pliers  
45 711 10" Rib Lock Pliers**

#### Miscellaneous

- |                  |  |
|------------------|--|
| <b>41 4400C</b>  | 7 PC 1/4" Dr. Internal Torx Set          |
| <b>41 4502</b>   | 3/8" Dr. #2 Phillips Bit Socket          |
| <b>41 4503</b>   | 3/8" Dr. #3 Phillips Bit Socket          |
| <b>41 4504</b>   | 3/8" Dr. #4 Phillips Bit Socket          |
| <b>41 4712</b>   | 3/8" Dr. 3/16" Hex Bit Socket            |
| <b>41 4714</b>   | 3/8" Dr. 7/32" Hex Bit Socket            |
| <b>41 4716</b>   | 3/8" Dr. 1/4" Hex Bit Socket             |
| <b>41 4720</b>   | 3/8" Dr. 5/16" Hex Bit Socket            |
| <b>41 4724</b>   | 3/8" Dr. 3/8" Hex Bit Socket             |
| <b>41 4510</b>   | 3/8" Dr. 1/4" Slotted Bit Socket         |
| <b>41 4511</b>   | 3/8" Dr. 3/8" Slotted Bit Socket         |
| <b>72 1251</b>   | 3/8" Dr. 1 1/2" Wobble Extension         |
| <b>72 1253</b>   | 3/8" Dr. 3" Wobble Extension             |
| <b>72 1256</b>   | 3/8" Dr. 6" Wobble Extension             |
| <b>73 1202</b>   | 1/2" Dr. 2" Extension                    |
| <b>73 1210</b>   | 1/2" Dr. 10" Extension                   |
| <b>73 1251</b>   | 1/2" Dr. 1 1/2" Wobble Extension         |
| <b>73 1716</b>   | 1/2" Dr. Universal Joint                 |
| <b>73 2206</b>   | 1/2" Dr. 6" Impact Extension             |
| <b>73 2210</b>   | 1/2" Dr. 10" Impact Extension            |
| <b>62 520</b>    | 5/16" x 5/8" Half Moon Wrench            |
| <b>65 116</b>    | 7/16" x 1/2" Tappet Wrench               |
| <b>65 120</b>    | 9/16" x 5/8" Tappet Wrench               |
| <b>68 606</b>    | 9/4" Adjustable Wrench                   |
| <b>68 610</b>    | 1 1/8" Adjustable Wrench                 |
| <b>81 600</b>    | 12 oz. Soft Face Hammer                  |
| <b>81 708</b>    | 8 oz. Ball Pein Hammer                   |
| <b>81 732</b>    | 32 oz. Ball Pein Hammer                  |
| <b>21 600</b>    | Adjustable Hacksaw                       |
| <b>23 101C</b>   | 12" Straight Cut Snips                   |
| <b>81 220</b>    | Rubber Mallet                            |
| <b>37 011</b>    | 18" Pry Bar                              |
| <b>K-D 135</b>   | Spark Plug Pliers                        |
| <b>K-D 445</b>   | Internal Snap Ring Pliers                |
| <b>K-D 446</b>   | External Snap Ring Pliers                |
| <b>K-D 2534</b>  | 7 3/4" Lock Ring Pliers                  |
| <b>K-D 2595</b>  | Chain Wrench                             |
| <b>K-D 4081</b>  | 13/16" x 15/64" Open End Ignition Wrench |
| <b>K-D 4082</b>  | 7/32" x 1/4" Open End Ignition Wrench    |
| <b>K-D 4085</b>  | 9/32" x 5/16" Open End Ignition Wrench   |
| <b>K-D 4087</b>  | 11/32" x 3/8" Open End Ignition Wrench   |
| <b>K-D 2282</b>  | 5" Screw Starter                         |
| <b>K-D 56334</b> | 13 PC SAE Long Arm Hex Key Set           |
| <b>K-D 161</b>   | Deluxe Feeler Gauge                      |
| <b>K-D 720</b>   | 5 PC Screw Extractor Set                 |
| <b>K-D 2062</b>  | Feeler Gauge                             |
| <b>K-D 2281</b>  | 27" Telescoping Magnetic Retrieving Tool |
| <b>K-D 2310</b>  | Tire & Rim Brush                         |
| <b>K-D 2425</b>  | 1 1/4" Chisel Scraper                    |
| <b>K-D 2957</b>  | 150 Ft. Lb. Torque Wrench                |



**91 572 263 Piece Master Tool Set with chest  
 91 573 262 Piece Master Tool Set without chest**

### Contents:

#### 1/4" Drive Socket Sets

**91 141 13 PC Socket Set  
 91 100C 7 PC Deep Socket Set  
 91 119C 10 PC Metric Socket Set  
 91 108C 9 PC Metric Deep Socket Set**

#### 3/8" Drive Socket Sets

**91 243 22 PC Socket Set  
 91 290 7 PC Flex Socket Set  
 91 263 12 PC Metric Socket Set  
 91 269 8 PC Metric Deep Socket Set**

#### 1/2" Drive Socket Sets

**91 321 15 PC Socket Set  
 91 320 8 PC Deep Socket Set  
 91 324C 14 PC Metric Socket Set  
 91 304C 13 PC Deep Impact Socket Set  
 91 303C 6 PC Metric Impact Socket Set**

#### Screwdriver Sets

**40 916 6 PC Phillips Screwdriver Set  
 40 936 6 PC Slotted Screwdriver Set  
 40 901 7 PC Nut Driver Set**

#### Punch and Chisel Sets

**33 911 5 PC Punch and Chisel Set**

#### Wrench Sets

**92 343 12 PC Combination Wrench Set  
 92 341 12 PC Metric Combination Wrench Set  
 92 520C 10 PC 3/8" Dr. Crowfoot Wrench Set  
 92 524C 10 PC 3/8" Dr. Metric Crowfoot Wrench Set  
 92 530 3 PC Flare Nut Wrench Set  
 92 535 3 PC Metric Flare Nut Wrench Set**

### Pliers

<b>45 708</b>	8" Slip Joint Pliers
<b>45 707</b>	6" Slip Joint Pliers
<b>45 711</b>	10" Rib Lock Pliers
<b>45 700</b>	6" Diagonal Cutters
<b>45 704</b>	6 1/2" Long Nose Pliers

### Miscellaneous

<b>41 4400C</b>	7 PC 1/4" Dr. Internal Torx Set
<b>72 1251</b>	3/8" Dr. 1 1/2" Wobble Extension
<b>72 1253</b>	3/8" Dr. 3" Wobble Extension
<b>72 1256</b>	3/8" Dr. 6" Wobble Extension
<b>73 1202</b>	1/2" Dr. 2" Extension
<b>73 1210</b>	1/2" Dr. 10" Extension
<b>73 1251</b>	1/2" Dr. 1 1/2" Wobble Extension
<b>73 1716</b>	1/2" Dr. Universal Joint
<b>73 2206</b>	1/2" Dr. 6" Impact Extension
<b>81 600</b>	12 oz. Soft Face Hammer
<b>81 708</b>	8 oz. Ball Pein Hammer
<b>21 600</b>	Adjustable Hacksaw
<b>37 011</b>	18" Pry Bar
<b>K-D 56334</b>	13 PC SAE Long Arm Hex Key Set
<b>K-D 720</b>	5 PC Screw Extractor Set
<b>K-D 2062</b>	Feeler Gauge
<b>K-D 2310</b>	Tire & Rim Brush



**91 574 172 Piece Master Tool Set with chest  
91 575 171 Piece Master Tool Set without chest**

**Contents:****1/4" Drive Socket Sets**

**91 141 13 PC Socket Set  
91 100C 7 PC Deep Socket Set  
91 119C 10 PC Metric Socket Set  
91 108C 9 PC Metric Deep Socket Set**

**5/16" Drive Socket Sets**

**91 243 22 PC Socket Set  
91 290 7 PC Flex Socket Set  
91 263 12 PC Metric Socket Set  
91 269 8 PC Metric Deep Socket Set**

**Screwdriver Sets**

**40 916 6 PC Phillips Screwdriver Set  
40 936 6 PC Slotted Screwdriver Set  
40 901 7 PC Nut Driver Set**

**Punch and Chisel Sets**

**33 911 5 PC Punch and Chisel Set**

**Wrench Sets**

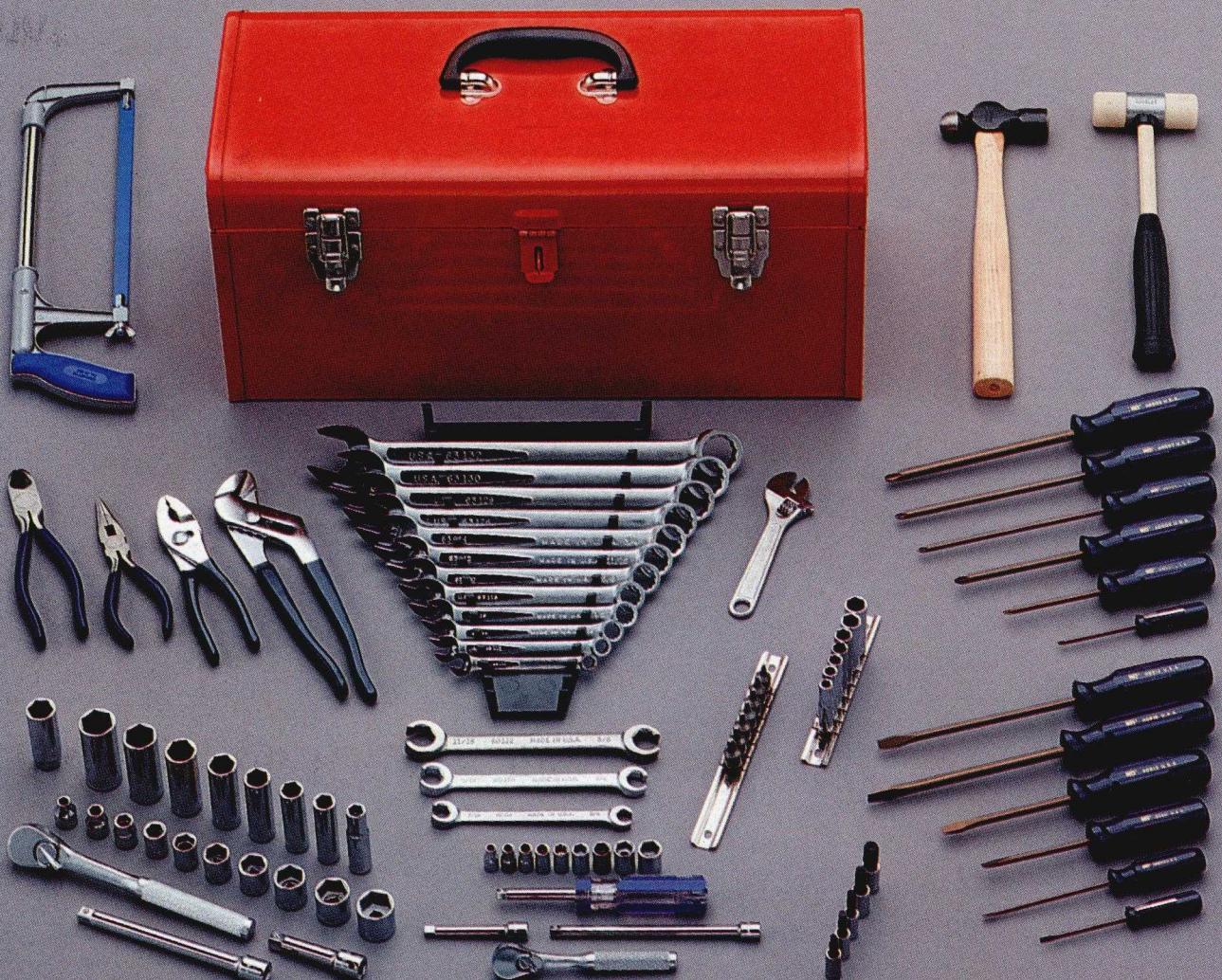
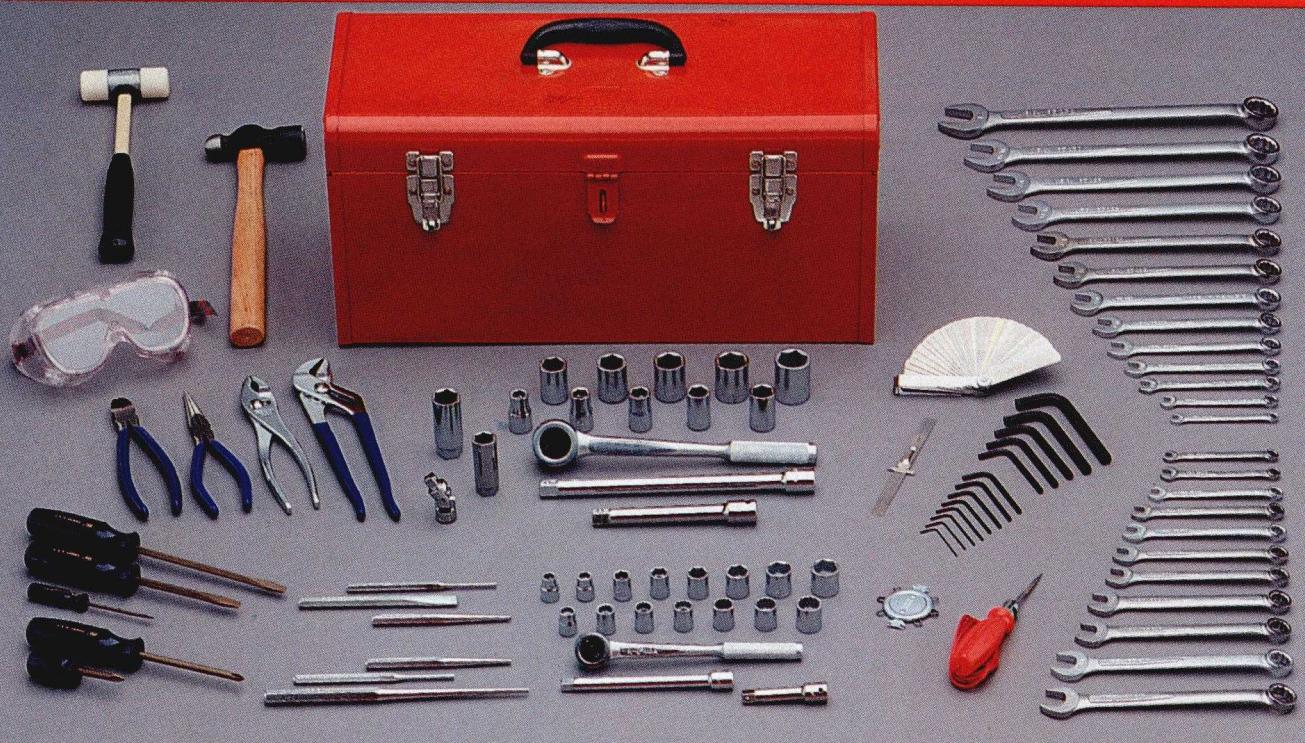
**92 343 12 PC Combination Wrench Set  
92 341 12 PC Metric Combination Wrench Set**

**Pliers**

**45 707 6" Slip Joint Pliers  
45 711 10" Rib Lock Pliers  
45 701 7" Diagonal Cutters  
45 704 6 1/2" Long Nose Pliers**

**Miscellaneous**

**41 4400C 7 PC 1/4" Dr. Internal Torx Set  
81 600 12 oz. Soft Face Hammer  
81 708 8 oz. Ball Pein Hammer  
21 065 Adjustable Hacksaw  
37 011 18" Pry Bar  
K-D 56334 13 PC SAE Long Arm Hex Key Set  
K-D 161 Deluxe Feeler Gauge  
K-D 720 5 PC Screw Extractor Set  
K-D 2310 Tire & Rim Brush**



**91 502 94 Piece General Purpose Set with box  
91 503 93 Piece General Purpose Set without box**

**Contents:**

**¾" Drive**  
**52 1112** ¾" 6 PT Socket  
**52 1114** ½" 6 PT Socket  
**52 1116** ½" 6 PT Socket  
**52 1118** ¾" 6 PT Socket  
**52 1120** ¾" 6 PT Socket  
**52 1122** 1⅛" 6 PT Socket  
**52 1124** ¾" 6 PT Socket  
**52 6109** 9mm 6 PT Socket  
**52 8110** 10mm 12 PT Socket  
**52 8111** 11mm 12 PT Socket  
**52 8112** 12mm 12 PT Socket  
**52 8113** 13mm 12 PT Socket  
**52 8114** 14mm 12 PT Socket  
**52 8115** 15mm 12 PT Socket  
**52 8117** 17mm 12 PT Socket  
**52 1820** ¾" Spark Plug Socket  
**52 1826** 1⅛" Spark Plug Socket  
**72 1712** Universal Joint  
**72 1203** 3" Extension  
**72 1206** 6" Extension  
**72 1109** Quick Release Ratchet

**½" Drive Socket Sets**

**53 1114** 7/16" 6 PT Socket  
**53 1116** ½" 6 PT Socket  
**53 1118** ¾" 6 PT Socket  
**53 1120** ¾" 6 PT Socket  
**53 1122** 1⅛" 6 PT Socket  
**53 1124** ¾" 6 PT Socket  
**53 1126** 1⅜" 6 PT Socket  
**53 1128** 7/8" 6 PT Socket  
**53 1130** 1⅜" 6 PT Socket  
**53 1132** 1" 6 PT Socket  
**73 1206** 6" Extension  
**73 1210** 10" Extension  
**73 1111** Quick Release Ratchet

**Wrenches**

**63 108** ¼" 12 PT Combination  
**63 110** 5/16" 12 PT Combination  
**63 112** ¾" 12 PT Combination  
**63 114** 7/16" 12 PT Combination  
**63 116** ½" 12 PT Combination  
**63 118** ¾" 12 PT Combination

**63 120** 5/8" 12 PT Combination  
**63 122** 1⅓" 12 PT Combination  
**63 124** ¾" 12 PT Combination  
**63 126** 1⅓" 12 PT Combination  
**63 128** 7/8" 12 PT Combination  
**63 130** 1" 12 PT Combination  
**63 132** 7mm 12 PT Combination  
**63 607** 8mm 12 PT Combination  
**63 608** 9mm 12 PT Combination  
**63 609** 10mm 12 PT Combination  
**63 610** 11mm 12 PT Combination  
**63 611** 12mm 12 PT Combination  
**63 612** 13mm 12 PT Combination  
**63 613** 14mm 12 PT Combination  
**63 614** 15mm 12 PT Combination  
**63 615** 17mm 12 PT Combination  
**63 617** 18mm 12 PT Combination  
**63 618** 19mm 12 PT Combination

**Pliers**

**45 502** 8" Slip Joint  
**45 505** 10" Groove Lock  
**45 607** 8" Long Nose  
**45 608** 7" Diagonal Cutting

**Screwdrivers**

**40 502** #2 x 4" Phillips  
**40 504** #1 x 1½" Phillips Stubby  
**40 521** ¼" x 4" Square Blade  
**40 522** ¼" x 6" Square Blade  
**40 533** ⅛" x 2" Pocket

**Miscellaneous**

**33 102** 7/16" x 5 ½" x 3/8" Cold Chisel  
**33 111** ¾" x 5" Center Punch  
**33 121** 5/32" x 5 ½" x 5/16" Pin Punch  
**33 122** 3/16" x 5 ½" x 5/16" Pin Punch  
**33 131** 1⅓" x 9" x ½" Drift Punch  
**33 141** 1⅓" x 5" x 3/8" Starter Punch  
**81 600** Soft Face Hammer  
**81 716** 16 oz. Ball Pein Hammer  
**K-D 30** 13 pc. Hex Key Set  
**K-D 129** Low Voltage Circuit Tester  
**K-D 161** Feeler Gauge  
**K-D 2054** Safety Goggles  
**K-D 2327** Spark Plug Gap Gauge  
**K-D 2522** 6" Stainless Rule

**91 576 90 Piece Master Tool Set with box  
91 577 89 Piece Master Tool Set without box**

**Contents:**

**¼" Drive Socket Sets**

**91 141** 13 PC Socket Set  
**91 100C** 7 PC Deep Socket Set

**¾" Drive Socket Sets**

**91 243** 22 PC Socket Set

**Screwdriver Sets**

**40 916** 6 PC Phillips Screwdriver Set  
**40 936** 6 PC Slotted Screwdriver Set

**Wrench Sets**

**92 343** 12 PC Combination Wrench Set  
**92 530** 3 PC Flare Nut Wrench Set

**Pliers**

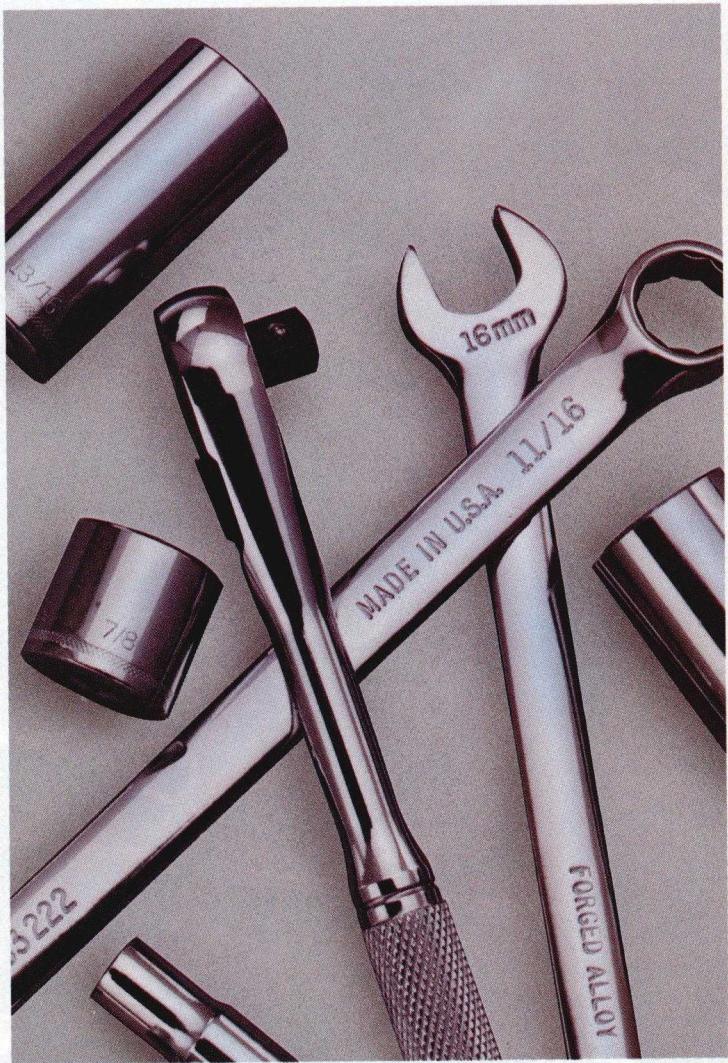
**45 707** 6" Slip Joint Pliers  
**45 711** 10" Rib Lock Pliers  
**45 701** 7" Diagonal Cutters  
**45 704** 6 ½" Long Nose Pliers

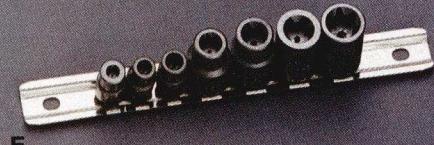
**Miscellaneous**

**41 4400C** 7 PC ¼" Dr. Internal Torx Set  
**41 4392C** 5 PC ¼" Dr. Hex Bit Socket Set  
**68 606** ¾" Adjustable Wrench  
**81 600** 12 oz. Soft Face Hammer  
**81 712** 12 oz. Ball Pein Hammer  
**21 065** Adjustable Hacksaw



**SOCKET SETS/WRENCH SETS**





**A. 91 505      24 Piece 1/4" and 3/8" Drive Socket Set**

**Contents:**

51 1106	3/16" 6 PT Socket, 1/4" Drive
51 1107	7/32" 6 PT Socket, 1/4" Drive
51 1108	1/4" 6 PT Socket, 1/4" Drive
51 1109	9/32" 6 PT Socket, 1/4" Drive
51 1110	5/16" 6 PT Socket, 1/4" Drive
51 1111	11/32" 6 PT Socket, 1/4" Drive
51 1112	3/8" 6 PT Socket, 1/4" Drive
51 1114	7/16" 6 PT Socket, 1/4" Drive
51 1116	1/2" 6 PT Socket, 1/4" Drive
71 1208	6" Spinner Handle
52 1118	5/16" 6 PT Socket, 3/8" Drive
52 1214	7/16" 6 PT Socket, 3/8" Drive
52 1216	1/2" 6 PT Socket, 3/8" Drive
52 1218	9/16" 6 PT Socket, 3/8" Drive
52 3120	5/8" 12 PT Socket, 3/8" Drive
52 3122	11/16" 12 PT Socket, 3/8" Drive
52 3124	3/4" 12 PT Socket, 3/8" Drive
52 3126	13/16" 12 PT Socket, 3/8" Drive
52 3128	7/8" 12 PT Socket, 3/8" Drive
52 1826	13/16" Spark Plug Socket
72 1508	3/8" x 1/4" Reducing Adapter
72 1248	1 1/2" Extension
72 1206	6" Extension
72 1109	Quick Release Ratchet Metal Box

**B. 91 525      17 Piece 1/4" and 3/8" Drive Socket Set**

**Contents:**

51 3106	3/16" 12 PT Socket, 1/4" Drive
51 3107	7/32" 12 PT Socket, 1/4" Drive
51 3108	1/4" 12 PT Socket, 1/4" Drive
51 3109	9/32" 12 PT Socket, 1/4" Drive
51 3110	5/16" 12 PT Socket, 1/4" Drive
51 3111	11/32" 12 PT Socket, 1/4" Drive
51 3112	3/8" 12 PT Socket, 1/4" Drive
71 1208	6" Spinner Handle
52 3114	7/16" 12 PT Socket, 3/8" Drive
52 3116	1/2" 12 PT Socket, 3/8" Drive
52 3118	9/16" 12 PT Socket, 3/8" Drive
52 3122	11/16" 12 PT Socket, 3/8" Drive
52 3124	3/4" 12 PT Socket, 3/8" Drive
52 1820	5/8" 12 PT Socket, 3/8" Drive
72 1508	3/8" x 1/4" Reducing Adapter
72 1203	3" Extension
72 1104	Ratchet Metal Box

**C. 91 551      24 Piece 1/4" and 3/8" Drive Metric Socket Set**

**Contents:**

51 6104	4mm 6 PT Socket, 1/4" Drive
51 6105	5mm 6 PT Socket, 1/4" Drive
51 6106	6mm 6 PT Socket, 1/4" Drive
51 6107	7mm 6 PT Socket, 1/4" Drive
51 6108	8mm 6 PT Socket, 1/4" Drive
51 6109	9mm 6 PT Socket, 1/4" Drive
51 6110	10mm 6 PT Socket, 1/4" Drive
51 6111	11mm 6 PT Socket, 1/4" Drive
51 6113	13mm 6 PT Socket, 1/4" Drive
71 1208	6" Spinner Handle
52 6113	13mm 6 PT Socket, 3/8" Drive
52 6212	12mm 6 PT Socket, 3/8" Drive
52 6213	13mm 6 PT Socket, 3/8" Drive
52 6214	14mm 6 PT Socket, 3/8" Drive
52 8116	16mm 12 PT Socket, 3/8" Drive
52 8117	17mm 12 PT Socket, 3/8" Drive
52 8118	18mm 12 PT Socket, 3/8" Drive
52 8119	19mm 12 PT Socket, 3/8" Drive
52 8121	21mm 12 PT Socket, 3/8" Drive
52 1820	5/8" Spark Plug Socket
72 1508	3/8" x 1/4" Reducing Adapter
72 1248	1 1/2" Extension
72 1206	6" Extension
72 1109	Quick Release Ratchet Metal Box

**D. 41 1650C    11 Piece 1/4" and 3/8" Drive Internal Torx® Socket Set**

**Contents:**

41 1410	T-10 1/4" Drive
41 1415	T-15 1/4" Drive
41 1420	T-20 1/4" Drive
41 1425	T-25 1/4" Drive
41 1427	T-27 1/4" Drive
41 1430	T-30 1/4" Drive
41 1540	T-40 3/8" Drive
41 1545	T-45 3/8" Drive
41 1550	T-50 3/8" Drive
41 1555	T-55 3/8" Drive
72 1508	3/8" x 1/4" Reducing Adapter Socket Rail

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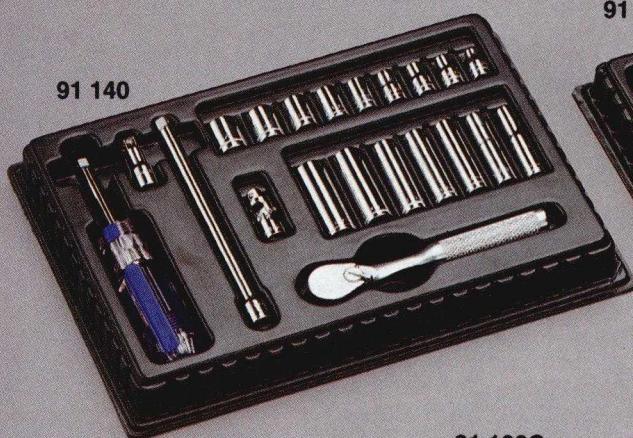
**E. 41 1750C    7 Piece 1/4" and 3/8" Drive External Torx® Socket Set**

**Contents:**

41 1706	E-6 1/4" Drive
41 1707	E-7 1/4" Drive
41 1708	E-8 1/4" Drive
41 1710	E-10 3/8" Drive
41 1712	E-12 3/8" Drive
41 1714	E-14 3/8" Drive
41 1716	E-16 3/8" Drive Socket Rail

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91 140



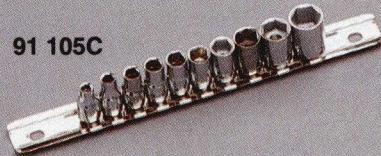
91 141



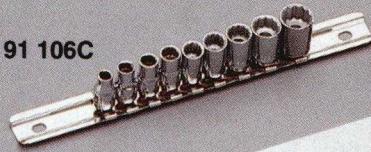
91 100C



91 105C



91 106C



91 121



91 112

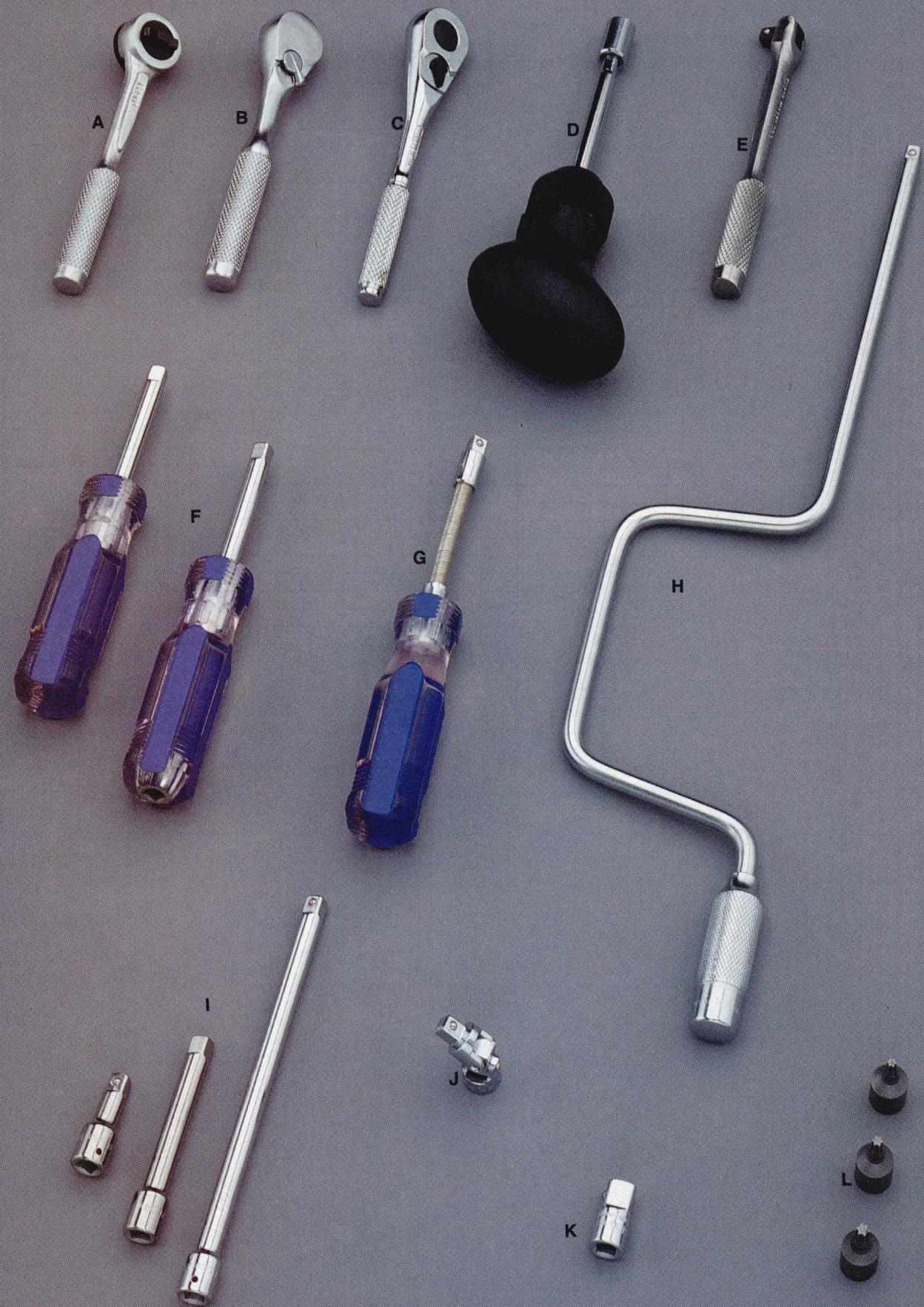


91 101

**1/4" Drive SAE Socket Sets**

Item No.	Description	91 140 21 Piece	91 141 13 Piece	91 105C 10 Piece	91 106C 9 Piece	91 100C 7 Piece	91 121 21 Piece	91 112 13 Piece	91 101 10 Piece
51 1105	5/32" 6 PT Socket			X					
51 1106	3/16" 6 PT Socket	X	X	X			X	X	X
51 1107	7/32" 6 PT Socket	X	X	X			X	X	X
51 1108	1/4" 6 PT Socket	X	X	X			X	X	X
51 1109	9/32" 6 PT Socket	X	X	X			X	X	X
51 1110	5/16" 6 PT Socket	X	X	X			X	X	X
51 1111	1 1/32" 6 PT Socket	X	X	X			X	X	X
51 1112	3/8" 6 PT Socket	X	X	X			X	X	X
51 1114	7/16" 6 PT Socket	X	X	X			X	X	X
51 1116	1/2" 6 PT Socket	X	X	X			X	X	X
51 1206	3/16" 6 PT Deep Socket								
51 1207	7/32" 6 PT Deep Socket								
51 1208	1/4" 6 PT Deep Socket	X				X	X		
51 1209	9/32" 6 PT Deep Socket	X				X	X		
51 1210	5/16" 6 PT Deep Socket	X				X	X		
51 1211	1 1/32" 6 PT Deep Socket	X				X	X		
51 1212	3/8" 6 PT Deep Socket	X				X	X		
51 1214	7/16" 6 PT Deep Socket	X				X	X		
51 1216	1/2" 6 PT Deep Socket	X				X	X		
51 3106	3/16" 12 PT Socket				X				
51 3107	7/32" 12 PT Socket				X				
51 3108	1/4" 12 PT Socket			X					
51 3109	9/32" 12 PT Socket			X					
51 3110	5/16" 12 PT Socket			X					
51 3111	1 1/32" 12 PT Socket			X					
51 3112	3/8" 12 PT Socket			X					
51 3114	7/16" 12 PT Socket			X					
51 3116	1/2" 12 PT Socket			X					
71 1102	Ratchet 5 1/2"	X	X				X	X	
71 1106	Quick Release Ratchet								
71 1203	3" Extension							X	
71 1206	6" Extension	X	X				X	X	
71 1207	Spinner Handle						X		
71 1208	Spinner Handle	X	X					X	
71 1248	1 1/2" Extension	X	X				X		X
71 1306	Flex Handle								
71 1708	Universal Joint	X						X	
71 1923	Speeder Handle								
71 1947	Flexible Spinner Handle								
	Packaging	Tray	Tray	Rail	Rail	Rail	Metal	Metal	Metal
							Box	Box	Box

**SOCKET SETS 1/4" DRIVE**



**A. Quick Release Ratchet**

This quality quick release ratchet features a knurled handle. Change drive direction with simple twist of lever. Nickel-chrome plated. 4½° swing arc. 35 teeth.

Item No.	Description	Length	Wt.
71 1106	Quick Release Ratchet	5½"	4 oz.
71 1106R	Ratchet Renewal Kit		

**B. Ratchet**

Durable, drop-forged design meets precision tolerances. Comfortable, knurled grip. Nickel-chrome plated. 15° swing arc. 24 teeth.

Item No.	Length	Wt.
71 1102	5¼"	4 oz.

**C. Ratchet**

Forged Torque-Wrap™ design provides for maximum torque strength. Slim profile for tight spots. One-hand Quick-Flip™ reversing lever. Knurled handle for better grip. 10° swing arc. 36 teeth.

Item No.	Length	Wt.
71 1108*	5¼"	4 oz.

**D. Wrist Ratchet**

Unique, high torque easy-grip handle design. Adjustable adapter holds any hex shank bit or ¼" drive socket. Exclusive fingertip speeder. Thumb switch for forward, reverse and lock positions. See Screwdriver Section for a complete selection of insert bits to be used with the Wrist Ratchet.

Item No.	Length	Wt.
71 1190	8"	7½ oz.

**E. Flex Handle**

Use to break tight nuts free or reach hard-to-get-at locations with a 180° pivoting head.

Item No.	Length	Wt.
71 1306	5¾"	3 oz.

**F. Spinner Handles**

Screwdriver type handle used to quickly tighten or loosen fasteners. No. 71 1208 features female ¼" square drive in end of handle.

Item No.	Length	Wt.
71 1207	6"	3½ oz.
71 1208	6"	3 oz.

**G. Flexible Spinner Handle**

Screwdriver type handle with flexible shaft reaches odd angled areas.

Item No.	Length	Wt.
71 1947	6"	3 oz.

**H. Speeder Handle**

Turns fasteners rapidly. Chrome plated. Knurled handle.

Item No.	Length	Wt.
71 1923	15½"	7 oz.

**I. Extensions**

Extends ratchet from fastener for more freedom of ratchet movement.

Item No.	Length	Wt.
71 1203	3"	1 oz.
71 1206	6"	2 oz.
71 1248	1½"	½ oz.

**J. Universal Joint**

Use to turn fasteners that are not in a straight ahead area.

Item No.	Length	Wt.
71 1708	1 ¾"	¾ oz.

**K. Adapter**

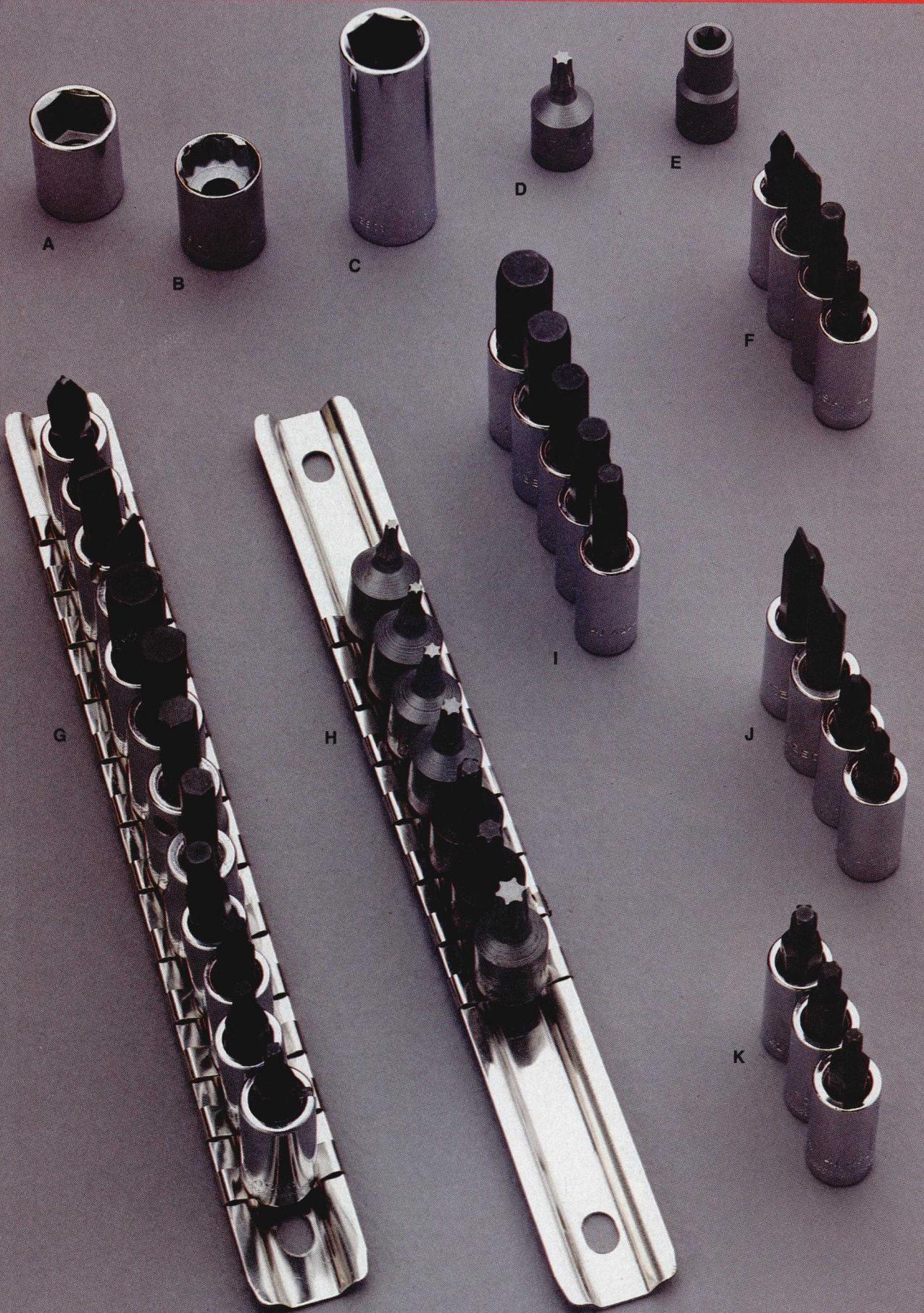
Adapts ⅜" sockets to ¼" drive tools.

Item No.	Description	Length	Wt.
71 1512	¼" to ⅜" Increasing	1"	2 oz.

**L. 1/4" Drive Internal Torx® Bit Sockets**

Item No.	Size	Length	Wt.
41 4315	T-15	1 ½"	2 oz.
41 4320	T-20	1 ½"	2 oz.
41 4325	T-25	1 ½"	2 oz.

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**A. 6 Point Standard Sockets**

Made of through-hardened alloy steel for strength. Designed with thin walls for easy access of fasteners situated in areas where conventional sockets can not reach. Lead-in chamfer and deep serrations for easy use. Fully polished and chrome plated.

Item No.	Size	Length	Wt.
51 1105	5/32"	7/8"	1/2 OZ.
51 1106	3/16"	7/8"	1/2 OZ.
51 1107	7/32"	7/8"	1/2 OZ.
51 1108	1/4"	7/8"	1/2 OZ.
51 1109	9/32"	7/8"	1/2 OZ.
51 1110	5/16"	7/8"	1/2 OZ.
51 1111	11/32"	7/8"	1/2 OZ.
51 1112	3/8"	7/8"	1/2 OZ.
51 1114	7/16"	7/8"	3/4 OZ.
51 1116	1/2"	7/8"	3/4 OZ.

**B. 12 Point Standard Sockets**

Item No.	Size	Length	Wt.
51 3106	3/16"	7/8"	1/2 OZ.
51 3107	7/32"	7/8"	1/2 OZ.
51 3108	1/4"	7/8"	1/2 OZ.
51 3109	9/32"	7/8"	1/2 OZ.
51 3110	5/16"	7/8"	1/2 OZ.
51 3111	11/32"	7/8"	1/2 OZ.
51 3112	3/8"	7/8"	1/2 OZ.
51 3114	7/16"	7/8"	3/4 OZ.
51 3116	1/2"	7/8"	3/4 OZ.

**C. 6 Point Deep Sockets**

Item No.	Size	Length	Wt.
51 1206	3/16"	2"	3/4 OZ.
51 1207	7/32"	2"	3/4 OZ.
51 1208	1/4"	2"	3/4 OZ.
51 1209	9/32"	2"	3/4 OZ.
51 1210	5/16"	2"	3/4 OZ.
51 1211	11/32"	2"	1 OZ.
51 1212	3/8"	2"	1 OZ.
51 1214	7/16"	2"	1 OZ.
51 1216	1/2"	2"	2 OZ.

**D. External Torx® Sockets**

Fits "male" Torx® fasteners found in many automotive and industrial applications.

Item No.	Description	Length	Wt.
41 1706C	E-6	1"	1 OZ.
41 1707C	E-7	1"	1 OZ.
41 1708C	E-8	1"	1 OZ.

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**E. Internal Torx® Sockets**

One piece sockets fit "female" Torx® fasteners found in many automotive and industrial applications.

Item No.	Description	Length	Wt.
41 1409C	T-9	1"	1/2 OZ.
41 1410C	T-10	1"	1/2 OZ.
41 1415C	T-15	1"	1/2 OZ.
41 1420C	T-20	1"	1/2 OZ.
41 1425C	T-25	1"	1/2 OZ.
41 1427C	T-27	1"	1/2 OZ.
41 1430C	T-30	1"	1/2 OZ.

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**F. 1/4" Drive Bit Sockets**

For use with 1/4" drive tools to turn slotted, phillips, hex and Torx® fasteners.

Item No.	Size	Length	Wt.
41 4101	#1 Phillips	1 5/8"	2 OZ.
41 4102	#2 Phillips	1 5/8"	2 OZ.
41 4115	4-5 Slotted	1 7/8"	2 OZ.
41 4116	8-10 Slotted	1 7/8"	2 OZ.
41 4212	3/16" Hex	2"	2 OZ.
41 4214	7/32" Hex	2"	2 OZ.
41 4216	1/4" Hex	2"	2 OZ.
41 4220	5/16" Hex	2"	2 OZ.
41 4224	3/8" Hex	2"	2 OZ.
41 4315	T-15 Torx®	1 5/8"	2 OZ.
41 4320	T-20 Torx®	1 5/8"	1 OZ.
41 4325	T-25 Torx®	1 5/8"	1 OZ.

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

**G. 41 4399C 12 Piece 1/4" Drive Master Bit Socket Set**
**Contents:**

41 4101	#1 Phillips	41 4216	1/4" Hex
41 4102	#2 Phillips	41 4220	5/16" Hex
41 4115	4-5 Slotted	41 4224	3/8" Hex
41 4116	8-10 Slotted	41 4315	T-15 Torx®
41 4212	3/16" Hex	41 4320	T-20 Torx®
41 4214	7/32" Hex	41 4325	T-25 Torx®

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

**H. 41 4400C 7 Piece 1/4" Drive Internal Torx® Socket Set**
**Contents:**

41 1409	T-9	41 1425	T-25
41 1410	T-10	41 1427	T-27
41 1415	T-15	41 1430	T-30
41 1420	T-20		

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

**I. 41 4392C 5 Piece 1/4" Drive Hex Bit Socket Set**
**Contents:**

41 4212	3/16"	41 4220	5/16"
41 4214	7/32"	41 4224	3/8"
41 4216	1/4"		

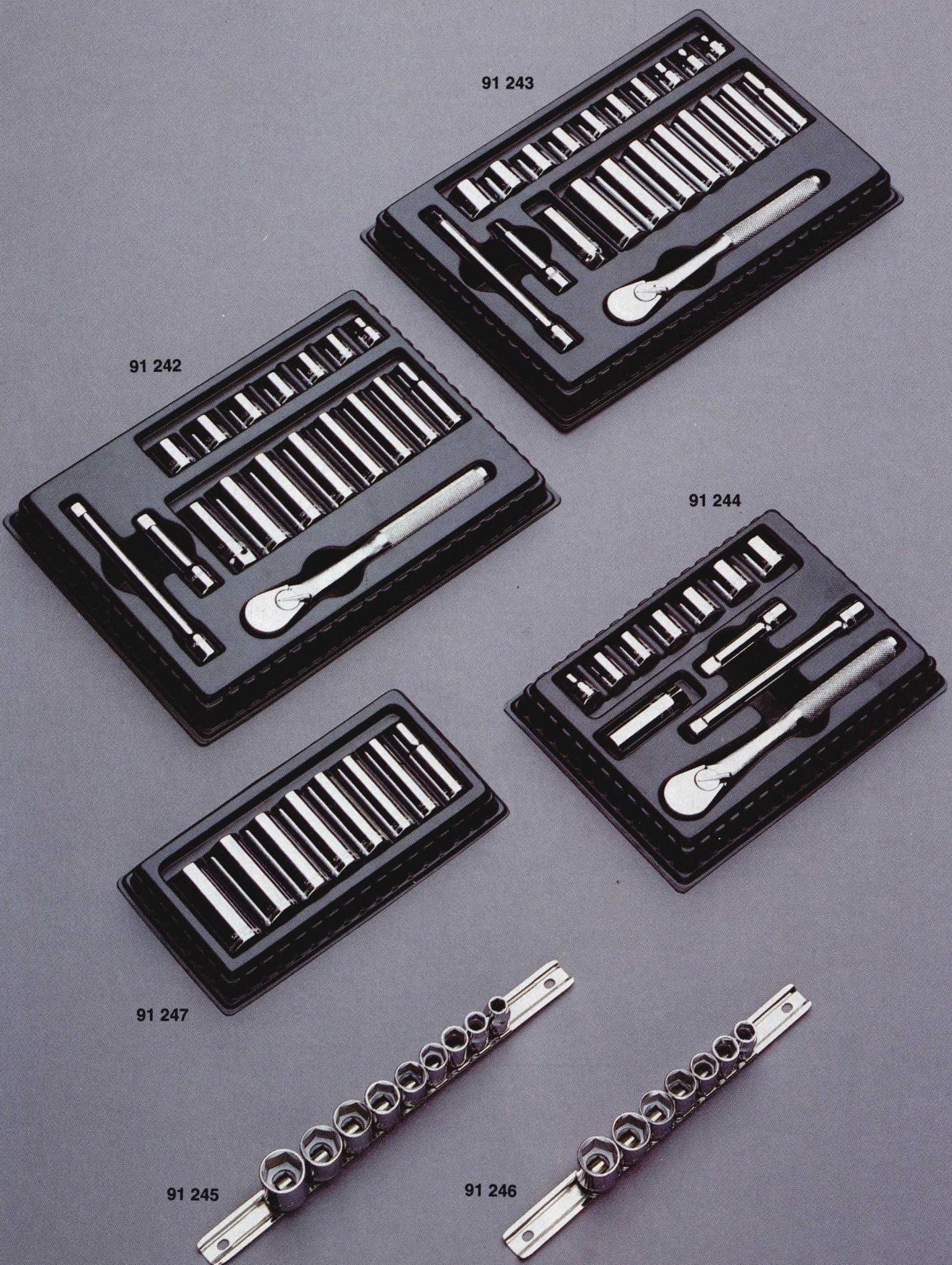
**J. 41 4390C 4 Piece 1/4" Drive Bit Socket Set**
**Contents:**

41 4101	#1 Phillips	41 4115	4-5 Slotted
41 4102	#2 Phillips	41 4116	8-10 Slotted

**K. 41 4391C 3 Piece 1/4" Drive Internal Torx® Bit Socket Set**
**Contents:**

41 4315	T-15
41 4320	T-20
41 4325	T-25

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.



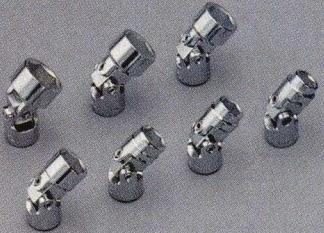
**3/8" Drive SAE Socket Sets**

<b>Item No.</b>	<b>Description</b>	<b>91 243 22 Piece</b>	<b>91 242 18 Piece</b>	<b>91 244 11 Piece</b>	<b>91 247 8 Piece</b>	<b>91 245 9 Piece</b>	<b>91 246 7 Piece</b>
52 1108	1/4" 6 PT Socket	X					
52 1110	5/16" 6 PT Socket	X				X	
52 1112	3/8" 6 PT Socket	X	X	X		X	X
52 1114	7/16" 6 PT Socket	X	X	X		X	X
52 1116	1/2" 6 PT Socket	X	X	X		X	X
52 1118	9/16" 6 PT Socket	X	X	X		X	X
52 1120	5/8" 6 PT Socket	X	X	X		X	X
52 1122	11/16" 6 PT Socket	X	X	X		X	X
52 1124	3/4" 6 PT Socket	X	X	X		X	X
52 1126	13/16" 6 PT Socket	X				X	
52 1212	3/8" 6 PT Deep Socket	X	X		X		
52 1214	7/16" 6 PT Deep Socket	X	X		X		
52 1216	1/2" 6 PT Deep Socket	X	X		X		
52 1218	9/16" 6 PT Deep Socket	X	X		X		
52 1220	5/8" 6 PT Deep Socket	X	X		X		
52 1222	11/16" 6 PT Deep Socket	X	X		X		
52 1224	3/4" 6 PT Deep Socket	X	X		X		
52 1226	13/16" 6 PT Deep Socket	X			X		
52 1228	7/8" 6 PT Deep Socket						
52 1820	5/8" 6 PT Spark Plug Socket	X	X	X			
52 1826	13/16" 6 PT Spark Plug Socket						
52 1840	5/8" 6 PT Univ. Spark Plug						
52 1846	13/4" 6 PT Univ. Spark Plug						
52 3110	5/16" 12 PT Socket						
52 3112	3/8" 12 PT Socket						
52 3114	7/16" 12 PT Socket						
52 3116	1/2" 12 PT Socket						
52 3118	9/16" 12 PT Socket						
52 3120	5/8" 12 PT Socket						
52 3122	11/16" 12 PT Socket						
52 3124	3/4" 12 PT Socket						
52 3126	13/16" 12 PT Socket						
52 3128	7/8" 12 PT Socket						
52 3212	3/8" 12 PT Deep Socket						
52 3214	7/16" 12 PT Deep Socket						
52 3216	1/2" 12 PT Deep Socket						
52 3218	9/16" 12 PT Deep Socket						
52 3220	5/8" 12 PT Deep Socket						
52 3222	11/16" 12 PT Deep Socket						
52 3224	3/4" 12 PT Deep Socket						
52 3226	13/16" 12 PT Deep Socket						
52 3228	7/8" 12 PT Deep Socket						
72 1104	Ratchet 7 3/4"	X	X	X			
72 1109	Quick Release Ratchet						
72 1203	3" Extension	X	X	X			
72 1206	6" Extension	X	X	X			
72 1210	10" Extension						
72 1211	11" Extension						
72 1220	20" Extension						
72 1248	1 1/2" Extension						
72 1310	Flex Handle						
72 1413	Q.R. Flex Head Ratchet						
72 1508	3/8" x 1/4" Red. Adapter						
72 1516	3/8" x 1/2" Inc. Adapter						
72 1610	5/16" 6 PT Flex Socket						
72 1612	3/8" 6 PT Flex Socket						
72 1614	7/16" 6 PT Flex Socket						
72 1616	1/2" 6 PT Flex Socket						
72 1618	9/16" 6 PT Flex Socket						
72 1620	5/8" 6 PT Flex Socket						
72 1622	1 1/16" 6 PT Flex Socket						
72 1624	3/4" 6 PT Flex Socket						
72 1712	Universal Joint						
72 1824	Sliding Tee Handle						
72 1923	Speeder Handle						
	Packaging	Tray	Tray	Tray	Tray	Socket Rail	Socket Rail

**SOCKET SETS      3/8" DRIVE**

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91 290



91 218



91 202

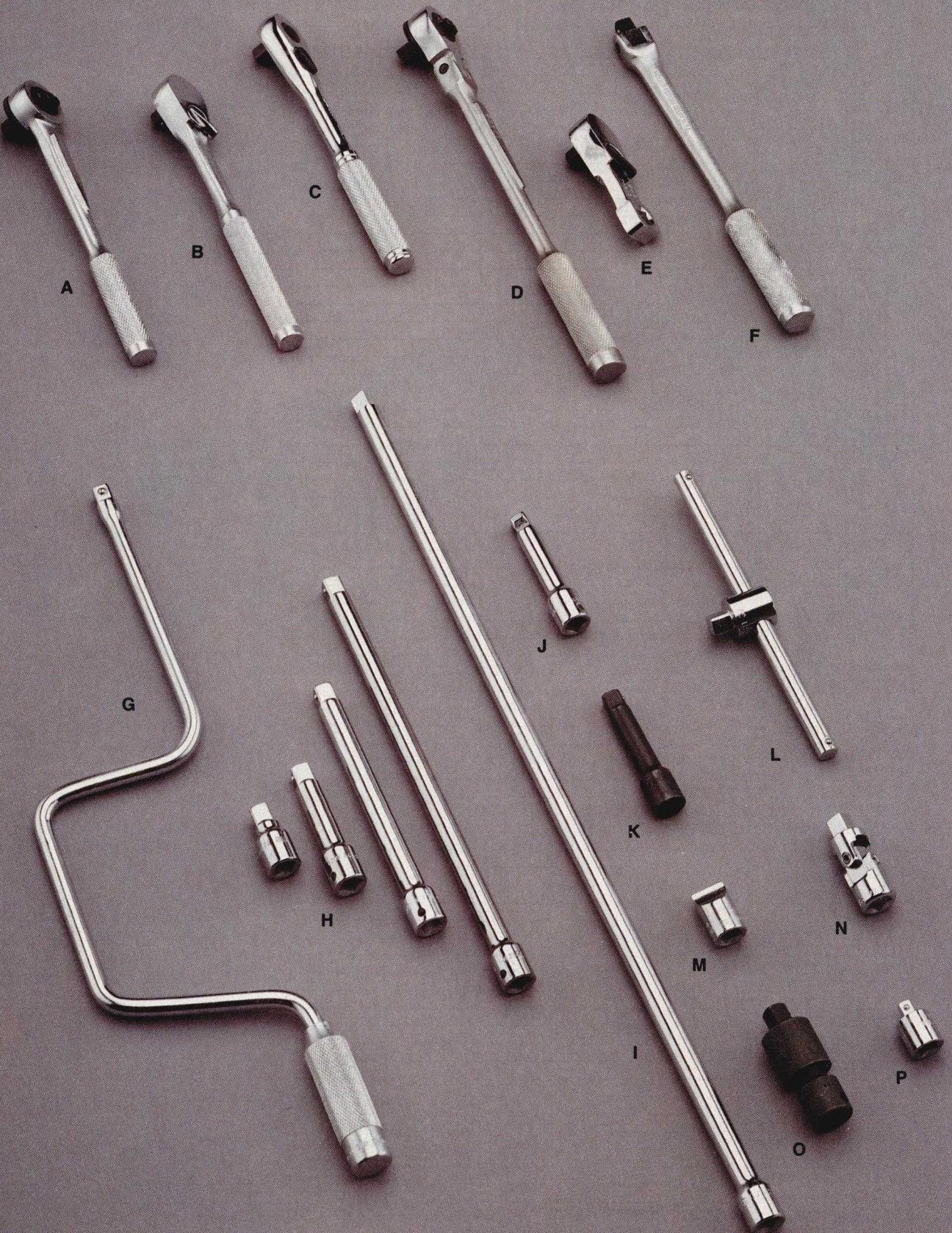


91 206



**3/8" Drive SAE Socket Sets Continued**

<b>Item No.</b>	<b>Description</b>	<b>91 290 7 Piece</b>	<b>91 218 18 Piece</b>	<b>91 202 12 Piece</b>	<b>91 206 12 Piece</b>
52 1108	1/4" 6 PT Socket				
52 1110	5/16" 6 PT Socket				
52 1112	3/8" 6 PT Socket		X	X	
52 1114	7/16" 6 PT Socket		X	X	
52 1116	1/2" 6 PT Socket		X	X	
52 1118	9/16" 6 PT Socket		X	X	
52 1120	5/8" 6 PT Socket		X	X	
52 1122	11/16" 6 PT Socket		X	X	
52 1124	3/4" 6 PT Socket		X	X	
52 1126	13/16" 6 PT Socket			X	
52 1212	5/8" 6 PT Deep Socket	X			
52 1214	7/16" 6 PT Deep Socket	X			
52 1216	1/2" 6 PT Deep Socket	X			
52 1218	9/16" 6 PT Deep Socket	X			
52 1220	5/8" 6 PT Deep Socket	X			
52 1222	11/16" 6 PT Deep Socket	X			
52 1224	3/4" 6 PT Deep Socket	X			
52 1226	13/16" 6 PT Deep Socket				
52 1228	7/8" 6 PT Deep Socket				
52 1820	5/8" 6 PT Spark Plug Socket		X	X	X
52 1826	13/16" 6 PT Spark Plug Socket				
52 1840	5/8" 6 PT Univ. Spark Plug				
52 1846	13/16" 6 PT Univ. Spark Plug				
52 3110	5/16" 12 PT Socket				
52 3112	3/8" 12 PT Socket			X	
52 3114	7/16" 12 PT Socket			X	
52 3116	1/2" 12 PT Socket			X	
52 3118	9/16" 12 PT Socket			X	
52 3120	5/8" 12 PT Socket			X	
52 3122	11/16" 12 PT Socket			X	
52 3124	3/4" 12 PT Socket			X	
52 3126	13/16" 12 PT Socket			X	
52 3128	7/8" 12 PT Socket			X	
52 3212	3/8" 12 PT Deep Socket				
52 3214	7/16" 12 PT Deep Socket				
52 3216	1/2" 12 PT Deep Socket				
52 3218	9/16" 12 PT Deep Socket				
52 3220	5/8" 12 PT Deep Socket				
52 3222	11/16" 12 PT Deep Socket				
52 3224	3/4" 12 PT Deep Socket				
52 3226	13/16" 12 PT Deep Socket				
52 3228	7/8" 12 PT Deep Socket				
72 1104	Ratchet 7 1/4"	X		X	
72 1109	Quick Release Ratchet		X		
72 1203	3" Extension	X			
72 1206	6" Extension	X	X	X	
72 1210	10" Extension				
72 1211	11" Extension				
72 1220	20" Extension				
72 1248	1 1/2" Extension		X	X	
72 1310	Flex Handle				
72 1413	Q.R. Flex Head Ratchet				
72 1508	3/8" x 1/4" Red. Adapter				
72 1516	3/8" x 1/2" Inc. Adapter				
72 1610	5/16" 6 PT Flex Socket				
72 1612	3/8" 6 PT Flex Socket	X			
72 1614	7/16" 6 PT Flex Socket	X			
72 1616	1/2" 6 PT Flex Socket	X			
72 1618	9/16" 6 PT Flex Socket	X			
72 1620	5/8" 6 PT Flex Socket	X			
72 1622	11/16" 6 PT Flex Socket	X			
72 1624	3/4" 6 PT Flex Socket	X			
72 1712	Universal Joint				
72 1824	Sliding Tee Handle				
72 1923	Speeder Handle				
	Packaging	Metal	Metal	Metal	Metal
		Box	Box	Box	Box



## A. Quick Release Ratchet

Quality quick release ratchet features knurled handle. Twist of lever changes drive direction. Nickle-chrome plated. 4½° swing arc. 41 teeth.

Item No.	Description	Length	Wt.
72 1109	Quick Release Ratchet	8"	11 oz.
72 1103	Ratchet Renewal Kit		

## B. Ratchet

Durable drop-forged design meets precision tolerances. Comfortable, non-slip grip. Nickle-chrome plated. 15° swing arc. 24 teeth.

Item No.	Length	Wt.
72 1104	7"	11 oz.

## C. Ratchet

Forged Torque-Wrap™ design provides for maximum torque strength. Slim profile for tight spots. One-hand Quick-Flip™ reversing lever. Knurled handle for better grip. 10° swing arc. 36 teeth.

Item No.	Length	Wt.
72 1108*	7½"	11 oz.

## D. Flex Head Ratchet

Quick release ratchet with flexible head. Ratchet head swings 180°.

Item No.	Description	Length	Wt.
72 1413	Quick Release Ratchet	11¼"	15 oz.
72 1103	Ratchet Renewal Kit		

## E. Stubby Ratchet

Sized to fit hard-to-reach areas. Features a square drive opening at the opposite end of the tang for use with a variety of ¾" drive tools. Offers a convenient direction lever for one-handed operation. Nickel chrome plated.

Item No.	Length	Wt.
72 1416	3¼"	8 oz.
72 1417*		

## F. Flex Handle

Use to break free tight nuts and reach hard to get at locations.

Item No.	Length	Wt.
72 1310	10"	10 oz.

## G. Speeder Handle

Turns fasteners rapidly. Chrome plated. Knurled handle.

Item No.	Length	Wt.
72 1923	16"	16 oz.

## H. 91 280C 4 Piece Extension Set

### Contents:

72 1248	1½"
72 1203	3"
72 1206	6"
72 1210	10"

## I. Extensions

Strong, chrome plated steel drive extensions. Extends ratchet from fastener for more freedom of ratchet movement.

Item No.	Length	Wt.
72 1203	3"	3 oz.
72 1206	6"	5 oz.
72 1210	10"	8 oz.
72 1211	11"	9 oz.
72 1220	20"	14 oz.
72 1248	1½"	2 oz.

## J. Wobble Extensions

Wobble extensions allow sockets to flex 15° in any direction. This enables the operator to reach fasteners that may be situated in areas that are not accessible with standard extensions.

Item No.	Length	Wt.
72 1251	1½"	2 oz.
72 1253	3"	4 oz.
72 1256	6"	7 oz.

## K. Impact Extension

Designed to withstand the stress of power impact tools.

Item No.	Length	Wt.
72 2203	3"	3 oz.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

## L. Sliding Tee Handle

¾" square drives on round bar for "Tee Handle" turning operation.

Item No.	Length	Wt.
72 1824	7"	8 oz.

## M. Drag Link Socket

Heavy duty screwdriver type socket turns drag links, drain plugs, slotted nuts and large screws.

Item No.	Size	Length	Wt.
72 1713	1½"	1½"	2 oz.

## N. Universal Joint

Use to turn fasteners that are not in a straight ahead area.

Item No.	Length	Wt.
72 1712	2"	2 oz.

## O. Impact Universal Joint

Use with impact sockets and extensions to reach fasteners in tight areas.

Item No.	Length	Wt.
72 2712	2"	3½ oz.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

## P. Adapters

Connects ¼" and ½" sockets to ¾" drive tools.

Item No.	Description	Length	Wt.
72 1508	¾" to ¼" Reducing	1"	1 oz.
72 1516	¾" to ½" Increasing	1 ⅞"	2 oz.



### A. 6 Point Standard Sockets

Made of hardened alloy steel for strength. Thin wall construction for easy access of fasteners situated in areas where conventional sockets cannot reach. Lead-in chamfer and deep serrations for easy use. Fully polished and nickel-chrome plated for rust free finish.

Item No.	Size	Length	Wt.
52 1108	1/4"	15/16"	1/2 OZ.
52 1110	5/16"	15/16"	1 OZ.
52 1112	3/8"	15/16"	1 OZ.
52 1114	7/16"	15/16"	1 OZ.
52 1116	1/2"	15/16"	1 OZ.
52 1118	9/16"	15/16"	1 OZ.
52 1120	5/8"	15/16"	1 OZ.
52 1122	1 1/16"	1"	2 OZ.
52 1124	3/4"	1"	2 OZ.
52 1126	13/16"	1 1/16"	2 OZ.

### B. 12 Point Standard Sockets

Item No.	Size	Length	Wt.
52 3110	5/16"	15/16"	1/2 OZ.
52 3112	3/8"	15/16"	1 OZ.
52 3114	7/16"	15/16"	1 OZ.
52 3116	1/2"	15/16"	1 OZ.
52 3118	9/16"	15/16"	1 OZ.
52 3120	5/8"	15/16"	1 OZ.
52 3122	1 1/16"	15/16"	2 OZ.
52 3124	3/4"	1"	2 OZ.
52 3126	13/16"	1 1/16"	2 OZ.
52 3128	7/8"	1 1/16"	3 OZ.

### C. 6 Point Deep Sockets

Item No.	Size	Length	Wt.
52 1212	3/8"	2 1/2"	2 OZ.
52 1214	7/16"	2 1/2"	2 OZ.
52 1216	1/2"	2 1/2"	2 OZ.
52 1218	9/16"	2 1/2"	2 OZ.
52 1220	5/8"	2 1/2"	3 OZ.
52 1222	1 1/16"	2 1/2"	3 OZ.
52 1224	3/4"	2 1/2"	4 OZ.
52 1226	13/16"	2 1/2"	4 OZ.
52 1228	7/8"	2 1/2"	5 OZ.

### D. 12 Point Deep Sockets

Item No.	Size	Length	Wt.
52 3212	3/8"	2 1/2"	2 OZ.
52 3214	7/16"	2 1/2"	2 OZ.
52 3216	1/2"	2 1/2"	2 OZ.
52 3218	9/16"	2 1/2"	2 OZ.
52 3220	5/8"	2 1/2"	3 OZ.
52 3222	1 1/16"	2 1/2"	3 OZ.
52 3224	3/4"	2 1/2"	4 OZ.
52 3226	13/16"	2 1/2"	4 OZ.
52 3228	7/8"	2 1/2"	5 OZ.

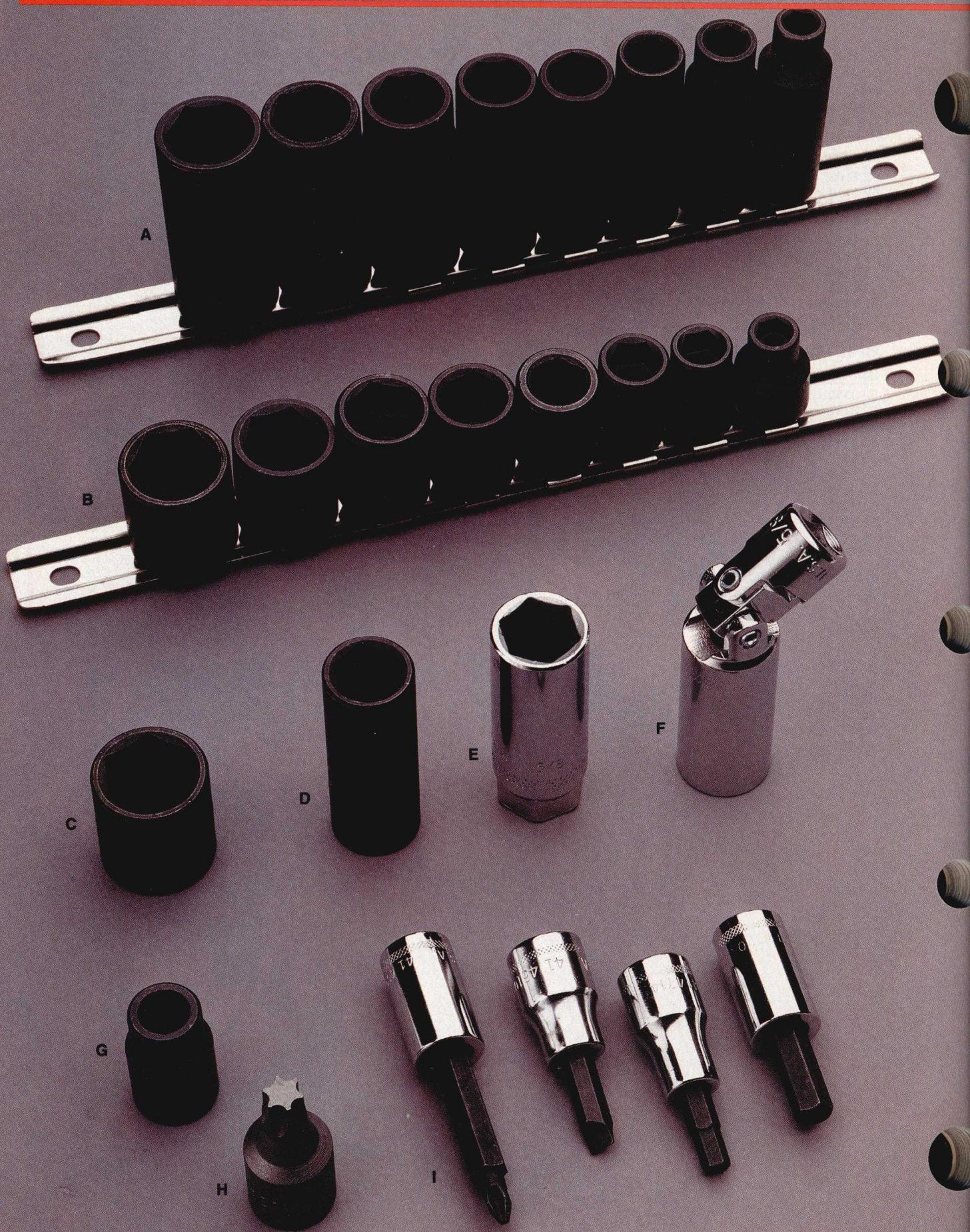
### E. 6 Point Flex Sockets

Sockets with universal joints for hard to reach locations.

Item No.	Size	Length	Wt.
72 1610	5/16"	1 3/4"	2 OZ.
72 1612	3/8"	1 3/4"	2 OZ.
72 1614	7/16"	1 3/4"	2 OZ.
72 1616	1/2"	1 3/4"	2 OZ.
72 1618	9/16"	1 13/16"	2 OZ.
72 1620	5/8"	1 13/16"	2 OZ.
72 1622	1 1/16"	1 13/16"	2 OZ.
72 1624	3/4"	1 13/16"	2 OZ.

### F. 12 Point Flex Sockets

Item No.	Size	Length	Wt.
72 2010	15/16"	1 3/4"	2 OZ.
72 2012	3/8"	1 3/4"	2 OZ.
72 2014	7/16"	1 3/4"	2 OZ.
72 2016	1/2"	1 3/4"	2 OZ.
72 2018	9/16"	1 13/16"	2 OZ.
72 2020	5/8"	1 13/16"	2 OZ.
72 2022	1 1/16"	1 13/16"	2 OZ.
72 2024	3/4"	1 13/16"	2 OZ.



## A. 91 241C 8 Piece Deep Impact Socket Set

### Contents:

52 1410	5/16" 6 PT.
52 1412	3/8" 6 PT.
52 1414	7/16" 6 PT.
52 1416	1/2" 6 PT.
52 1418	9/16" 6 PT.
52 1420	5/8" 6 PT.
52 1422	11/16" 6 PT.
52 1424	3/4" 6 PT.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

## B. 91 240C 8 Piece Impact Socket Set

### Contents:

52 1310	5/16" 6 PT.
52 1312	3/8" 6 PT.
52 1314	7/16" 6 PT.
52 1316	1/2" 6 PT.
52 1318	9/16" 6 PT.
52 1320	5/8" 6 PT.
52 1322	11/16" 6 PT.
52 1324	3/4" 6 PT.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

## C. 6 Point Standard Impact Sockets

Hot forged alloy steel to stand up to the extreme stress of impact tools. Larger sizes extruded for extra strength.

Item No.	Size	Length	Wt.
52 1310	5/16"	1"	3 oz.
52 1312	3/8"	1"	3 oz.
52 1314	7/16"	1"	3 oz.
52 1316	1/2"	1"	3 oz.
52 1318	9/16"	1"	3 oz.
52 1320	5/8"	1"	3 oz.
52 1322	11/16"	1"	3 oz.
52 1324	3/4"	1"	3 oz.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

## D. 6 Point Deep Impact Sockets

Item No.	Size	Length	Wt.
52 1410	5/16"	2 1/2"	1 oz.
52 1412	3/8"	2 1/2"	1 oz.
52 1414	7/16"	2 1/2"	1 oz.
52 1416	1/2"	2 1/2"	1 oz.
52 1418	9/16"	2 1/2"	2 oz.
52 1420	5/8"	2 1/2"	2 oz.
52 1422	11/16"	2 1/2"	3 oz.
52 1424	3/4"	2 1/2"	3 oz.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

## E. 6 Point Spark Plug Sockets

Extra deep sockets with cushion grip lining to hold and protect spark plugs.

Item No.	Size	Length	Wt.
52 1820	5/8"	2 5/8"	3 oz.
52 1826	13/16"	2 3/4"	5 oz.

## F. 6 Point Universal Spark Plug Sockets

Cushion grip lined spark plug socket with universal joint to reach restricted plugs.

Item No.	Size	Length	Wt.
52 1840	5/8"	3 1/4"	4 oz.
52 1846	13/16"	3 1/4"	5 oz.

## G. External Torx® Sockets

Fits "male" torx® fasteners found in many automotive and industrial applications.

Item No.	Size	Length	Wt.
41 1710C	E-10	1 1/4"	1 oz.
41 1712C	E-12	1 1/4"	1 oz.
41 1714C	E-14	1 1/4"	1 oz.
41 1716C	E-16	1 1/4"	1 oz.

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

## H. Internal Torx® Sockets

One piece sockets fit "female" torx® fasteners found in many automotive and industrial applications.

Item No.	Size	Length	Wt.
41 1540C	T-40	1 1/2"	1 oz.
41 1545C	T-45	1 1/2"	1 oz.
41 1550C	T-50	1 1/2"	2 oz.
41 1555C	T-55	1 1/2"	2 oz.

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

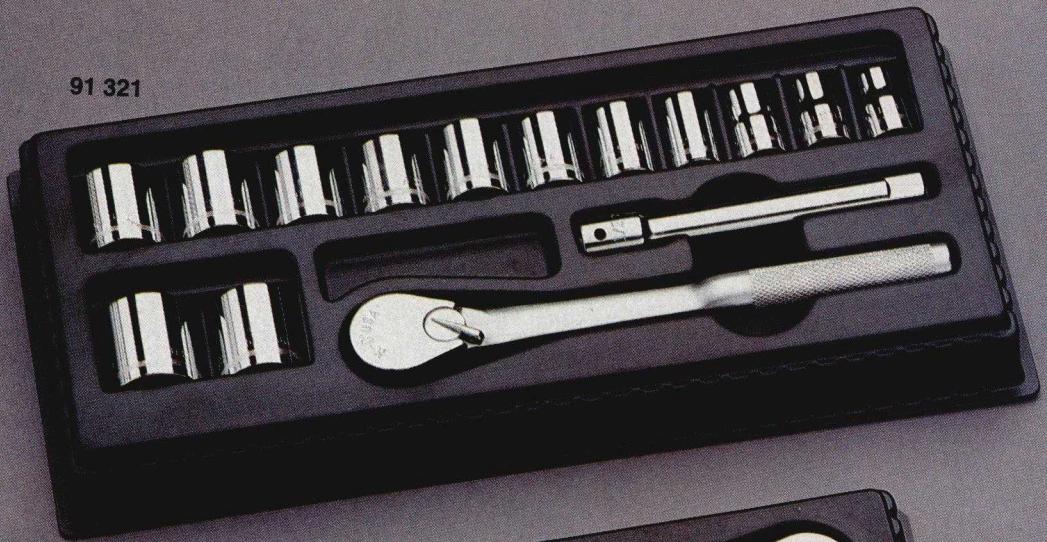
## I. Bit Sockets

For use with 3/8" drive tools to turn slotted, phillips, torx® and hex fasteners.

Item No.	Size	Length	Wt.
41 4502	#2 Phillips	2"	2 oz.
41 4503	#3 Phillips	2"	2 oz.
41 4504	#4 Phillips	2"	2 oz.
41 4510	4-5 Slotted	2"	2 oz.
41 4511	8-10 Slotted	2"	2 oz.
41 4512	12 Slotted	2"	2 oz.
41 4630C	T-30 Torx®	2"	2 oz.
41 4640C	T-40 Torx®	2"	2 oz.
41 4645C	T-45 Torx®	2"	2 oz.
41 4650C	T-50 Torx®	2"	2 oz.
41 4710	5/32" Hex	2"	2 oz.
41 4712	3/16" Hex	2"	2 oz.
41 4714	7/32" Hex	2"	2 oz.
41 4716	1/4" Hex	2"	2 oz.
41 4720	5/16" Hex	2"	2 oz.
41 4724	3/8" Hex	2"	2 oz.
41 4804	4mm Hex	2"	2 oz.
41 4805	5mm Hex	2"	2 oz.
41 4806	6mm Hex	2"	2 oz.
41 4807	7mm Hex	2"	2 oz.
41 4808	8mm Hex	2"	2 oz.
41 4810	10mm Hex	2"	2 oz.

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

91 321



91 328



91 320



91 300



91 329



91 325C



**1/2" Drive Socket Sets**

<b>Item No.</b>	<b>Description</b>	<b>91 321 15 Piece</b>	<b>91 328 12 Piece</b>	<b>91 329 13 Piece</b>	<b>91 325C 14 Piece</b>	<b>91 320 8 Piece</b>	<b>91 300 8 Piece</b>
53 1112	5/8" 6 PT Socket			X			
53 1114	7/16" 6 PT Socket	X	X	X			
53 1116	1/2" 6 PT Socket	X	X	X			
53 1118	9/16" 6 PT Socket	X	X	X			
53 1120	5/8" 6 PT Socket	X		X			
53 1122	11/16" 6 PT Socket			X			
53 1124	3/4" 6 PT Socket			X			
53 1126	13/16" 6 PT Socket			X			
53 1128	7/8" 6 PT Socket			X			
53 1130	15/16" 6 PT Socket			X			
53 1132	1" 6 PT Socket			X			
53 1134	11/16" 6 PT Socket			X			
53 1136	1 1/8" 6 PT Socket			X			
53 1140	1 1/4" 6 PT Socket			X			
53 1216	1/2" 6 PT Deep Socket					X	
53 1218	9/16" 6 PT Deep Socket					X	
53 1220	5/8" 6 PT Deep Socket					X	
53 1222	11/16" 6 PT Deep Socket					X	
53 1224	3/4" 6 PT Deep Socket					X	
53 1226	13/16" 6 PT Deep Socket					X	
53 1228	7/8" 6 PT Deep Socket					X	
53 1230	15/16" 6 PT Deep Socket					X	
53 1232	1" 6 PT Deep Socket						
53 1234	1 1/16" 6 PT Deep Socket						
53 1236	1 1/8" 6 PT Deep Socket						
53 1820	5/8" Spark Plug Socket		X				
53 1826	13/16" Spark Plug Socket						
53 3112	3/8" 12 PT Socket						
53 3114	7/16" 12 PT Socket				X		
53 3116	1/2" 12 PT Socket				X		
53 3118	9/16" 12 PT Socket				X		
53 3120	5/8" 12 PT Socket		X		X		
53 3122	11/16" 12 PT Socket	X	X		X		
53 3124	3/4" 12 PT Socket	X	X		X		
53 3126	13/16" 12 PT Socket	X	X		X		
53 3128	7/8" 12 PT Socket	X	X		X		
53 3130	15/16" 12 PT Socket	X	X		X		
53 3132	1" 12 PT Socket	X			X		
53 3134	1 1/16" 12 PT Socket	X			X		
53 3136	1 1/8" 12 PT Socket	X			X		
53 3140	1 1/4" 12 PT Socket	X			X		
53 3148	1 1/2" 12 PT Socket				X		
53 3216	1/2" 12 PT Deep Socket					X	
53 3218	9/16" 12 PT Deep Socket					X	
53 3220	5/8" 12 PT Deep Socket					X	
53 3222	11/16" 12 PT Deep Socket					X	
53 3224	3/4" 12 PT Deep Socket					X	
53 3226	13/16" 12 PT Deep Socket					X	
53 3228	7/8" 12 PT Deep Socket					X	
53 3230	15/16" 12 PT Deep Socket					X	
53 3232	1" 12 PT Deep Socket						
53 3234	1 1/16" 12 PT Deep Socket						
53 3236	1 1/8" 12 PT Deep Socket						
73 1111	Quick Release Ratchet						
73 1112	Ratchet, 10 3/8"	X	X				
73 1202	2" Extension						
73 1203	3" Extension						
73 1206	6" Extension	X	X				
73 1210	10" Extension						
73 1220	20" Extension						
73 1251	1 1/2" Wobble Extension						
73 1309	9" Flex Handle						
73 1315	15" Flex Handle						
73 1318	18" Flex Handle						
73 1716	Universal Joint						
	Packaging	Tray	Tray	Rail	Rail	Rail	Rail

**SOCKET SETS 1/2" DRIVE**

91 315



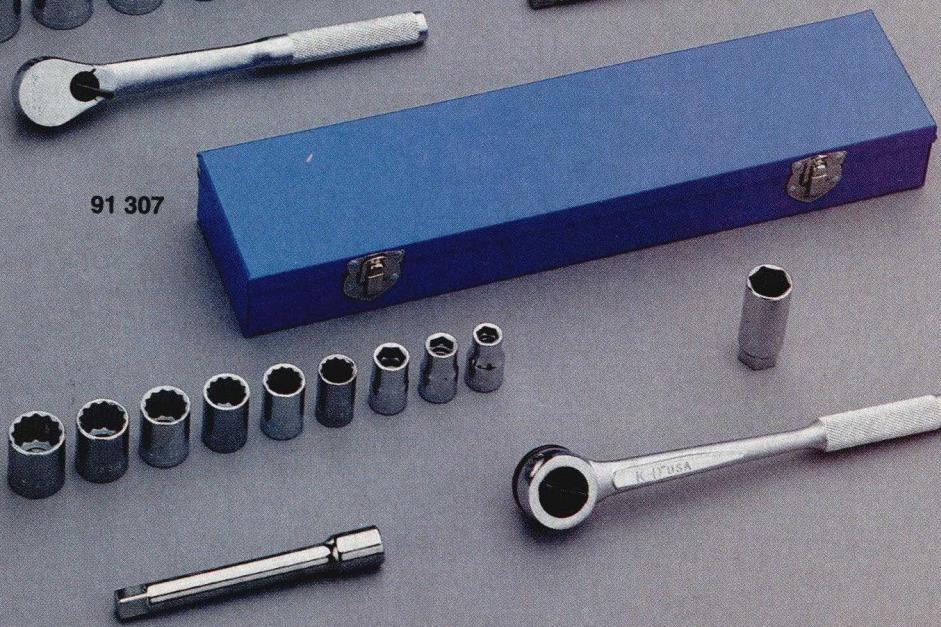
91 309



91 317

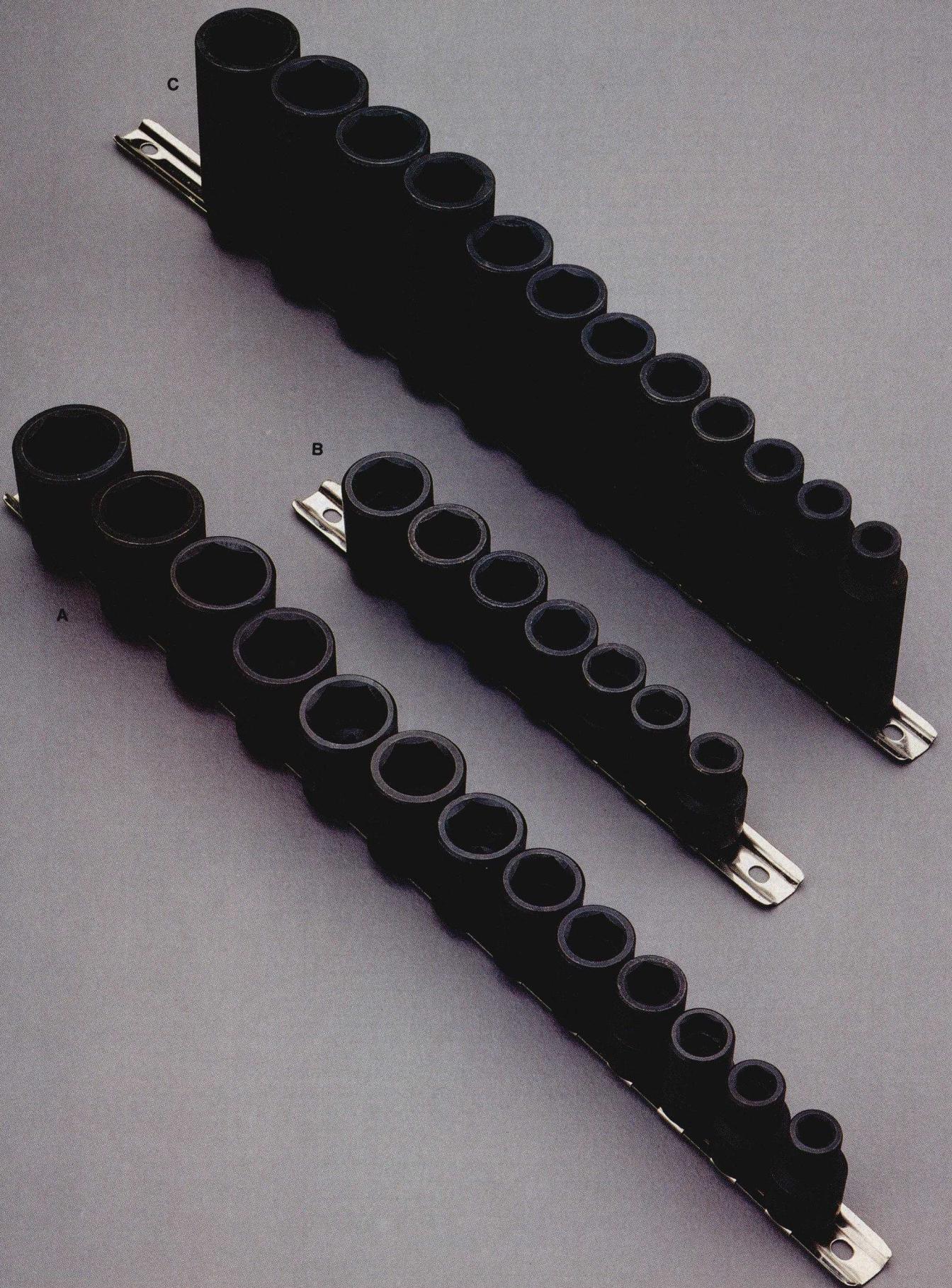


91 307



**1/2" Drive Socket Sets Continued**

<b>Item No.</b>	<b>Description</b>	<b>91 315 19 Piece</b>	<b>91 309 16 Piece</b>	<b>91 317 15 Piece</b>	<b>91 307 12 Piece</b>
53 1112	3/8" 6 PT Socket	X			
53 1114	5/16" 6 PT Socket	X	X		X
53 1116	1/2" 6 PT Socket	X	X		X
53 1118	9/16" 6 PT Socket	X	X		X
53 1120	5/8" 6 PT Socket		X		
53 1122	11/16" 6 PT Socket		X		
53 1124	3/4" 6 PT Socket		X		
53 1126	13/16" 6 PT Socket		X		
53 1128	7/8" 6 PT Socket		X		
53 1130	15/16" 6 PT Socket		X		
53 1132	1" 6 PT Socket		X		
53 1134	1 1/16" 6 PT Socket		X		
53 1136	1 1/8" 6 PT Socket		X		
53 1140	1 1/4" 6 PT Socket		X		
53 1216	1/2" 6 PT Deep Socket				
53 1218	9/16" 6 PT Deep Socket				
53 1220	5/8" 6 PT Deep Socket				
53 1222	11/16" 6 PT Deep Socket				
53 1224	3/4" 6 PT Deep Socket				
53 1226	13/16" 6 PT Deep Socket				
53 1228	7/8" 6 PT Deep Socket				
53 1230	15/16" 6 PT Deep Socket				
53 1232	1" 6 PT Deep Socket				
53 1234	1 1/16" 6 PT Deep Socket				
53 1236	1 1/8" 6 PT Deep Socket				
53 1820	5/8" Spark Plug Socket				
53 1826	13/16" Spark Plug Socket				X
53 3112	3/8" 12 PT Socket				
53 3114	7/16" 12 PT Socket			X	
53 3116	1/2" 12 PT Socket			X	
53 3118	9/16" 12 PT Socket			X	
53 3120	5/8" 12 PT Socket	X		X	X
53 3122	11/16" 12 PT Socket	X		X	X
53 3124	3/4" 12 PT Socket	X		X	X
53 3126	13/16" 12 PT Socket	X		X	X
53 3128	7/8" 12 PT Socket	X		X	X
53 3130	15/16" 12 PT Socket	X		X	X
53 3132	1" 12 PT Socket	X		X	
53 3134	1 1/16" 12 PT Socket	X		X	
53 3136	1 1/8" 12 PT Socket	X		X	
53 3140	1 1/4" 12 PT Socket	X		X	
53 3148	1 1/2" 12 PT Socket				
53 3216	1/2" 12 PT Deep Socket				
53 3218	9/16" 12 PT Deep Socket				
53 3220	5/8" 12 PT Deep Socket				
53 3222	11/16" 12 PT Deep Socket				
53 3224	3/4" 12 PT Deep Socket				
53 3226	13/16" 12 PT Deep Socket				
53 3228	7/8" 12 PT Deep Socket				
53 3230	15/16" 12 PT Deep Socket				
53 3232	1" 12 PT Deep Socket				
53 3234	1 1/16" 12 PT Deep Socket				
53 3236	1 1/8" 12 PT Deep Socket				
73 1111	Quick Release Ratchet				X
73 1112	Ratchet, 10 3/8"	X	X	X	
73 1202	2" Extension				
73 1203	3" Extension				
73 1206	6" Extension	X	X	X	X
73 1210	10" Extension	X			
73 1220	20" Extension				
73 1251	1 1/2" Wobble Extension				
73 1309	9" Flex Handle				
73 1315	15" Flex Handle	X	X		
73 1318	18" Flex Handle				
73 1716	Universal Joint	X			
	Packaging	Metal Box	Metal Box	Metal Box	Metal Box



**A. 91 304C 13 Piece 1/2" Drive Impact Socket Set****Contents:**

53 1312	3/8" 6 PT
53 1314	7/16" 6 PT
53 1316	1/2" 6 PT
53 1318	9/16" 6 PT
53 1320	5/8" 6 PT
53 1322	11/16" 6 PT
53 1324	3/4" 6 PT
53 1326	13/16" 6 PT
53 1328	7/8" 6 PT
53 1330	15/16" 6 PT
53 1332	1" 6 PT
53 1334	1 1/16" 6 PT
53 1336	1 1/8" 6 PT
	Socket Rail

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

**B. 91 316C 7 Piece 1/2" Drive Impact Socket Set****Contents:**

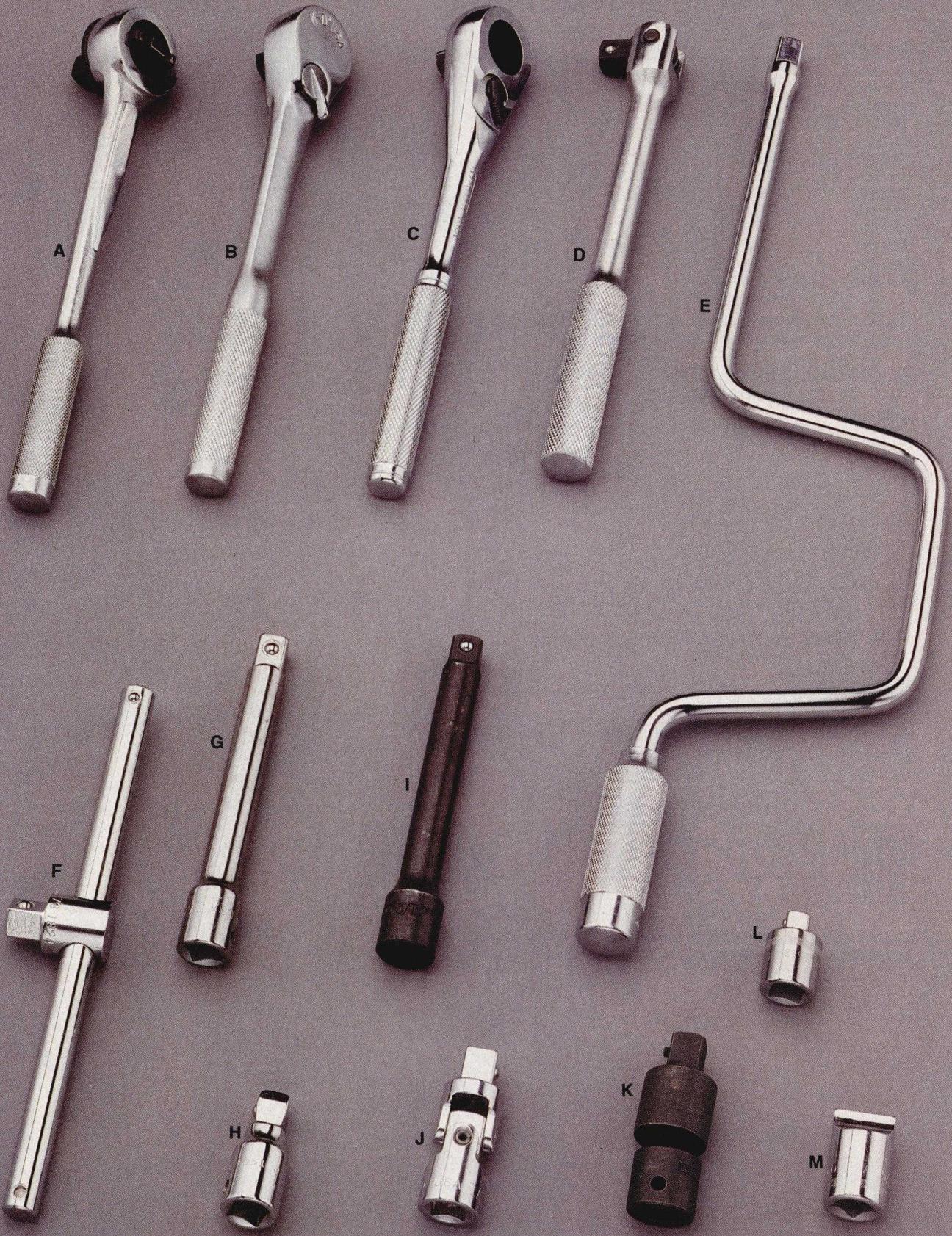
53 1314	7/16" 6 PT
53 1316	1/2" 6 PT
53 1318	9/16" 6 PT
53 1320	5/8" 6 PT
53 1322	11/16" 6 PT
53 1324	3/4" 6 PT
53 1326	13/16" 6 PT
	Socket Rail

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

**C. 91 340C 12 Piece 1/2" Drive Deep Impact Socket Set****Contents:**

53 1412	3/8" 6 PT
53 1414	7/16" 6 PT
53 1416	1/2" 6 PT
53 1418	9/16" 6 PT
53 1420	5/8" 6 PT
53 1422	11/16" 6 PT
53 1424	3/4" 6 PT
53 1426	13/16" 6 PT
53 1428	7/8" 6 PT
53 1430	15/16" 6 PT
53 1432	1" 6 PT
53 1434	1 1/16" 6 PT
	Socket Rail

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**



## A. Quick Release Ratchet

Forged heat treated alloy steel construction with push button quick release. Nickle-chrome plated. Knurled handle for a sure grip. 4½° swing arc. 45 teeth.

Item No.	Description	Length	Wt.
73 1111	Quick Release Ratchet	10½"	1 lb. 4 oz.
73 1116	Quick Release Ratchet	15"	1 lb. 4 oz.
73 1104	Ratchet Renewal Kit		

## B. Ratchet

Forged, heat treated alloy steel construction. Nickle-chrome plated. One hand reversing. Knurled handle for a sure grip. 1¼° swing arc. 32 teeth.

Item No.	Length	Wt.
73 1112	9½"	1 lb. 6 oz.

## C. Ratchet

Forged Torque-Wrap™ design provides for maximum torque strength. One-hand Quick-Flip™ reversing lever. Knurled handle for better grip. 10° swing arc. 36 teeth.

Item No.	Length	Wt.
73 1108*	10¾"	1 lb. 4 oz.

## D. Flex Handles

Use to break free tight nuts and bolts. Reaches hard to get at locations with 180° pivoting drive end.

Item No.	Length	Wt.
73 1309	9"	1 lb. 2 oz.
73 1315	15"	1 lb. 8 oz.
73 1318	18"	1 lb. 11 oz.

## E. Speeder Handle

Quickly turns fasteners. Chrome plated. Knurled handle.

Item No.	Length	Wt.
73 1923	18"	1 lb. 12 oz.

## F. Sliding Tee Handle

Square drive slides on round bar for "Tee Handle" turning operation.

Item No.	Length	Wt.
73 1824	9"	13 oz.

## G. Extensions

Extends ratchet from fastener for more freedom of ratchet movement.

Item No.	Length	Wt.
73 1202	2"	3 oz.
73 1203	3"	4 oz.
73 1206	6"	9 oz.
73 1210	10"	15 oz.
73 1220	20"	20 oz.

## H. Wobble Extension

Wobble extensions allow sockets to flex 15° in any direction. This enables the operator to reach fasteners that may be situated in areas that are not accessible with standard extensions.

Item No.	Length	Wt.
73 1251	1½"	3 oz.

## I. Impact Extension

Designed for use with power tools to reach fasteners in limited access areas.

Item No.	Length	Wt.
73 2203	3"	5 oz.
73 2206	6"	9 oz.
73 2210	10"	16 oz.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

## J. Universal Joint

Use to turn fasteners that are not in a straight ahead area.

Item No.	Length	Wt.
73 1716	1½"	4 oz.

## K. Impact Universal Joint

Offers flexibility to work in tight areas. Designed for use with power impact tools.

Item No.	Length	Wt.
73 2716	2⅓/16"	3 oz.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

## L. Adapters

Connects ¾" and ½" sockets to ½" drive tools.

Item No.	Description	Length	Wt.
73 1512	½" x ¾" Reducing	17/16"	2 oz.
73 1524	½" x ¾" Increasing	1¾"	4 oz.

## M. Drag Link Sockets

Strong, slotted tip sockets fit drag links, drain plugs, large slotted nuts and screws.

Item No.	Size	Length	Wt.
73 1945	¾"	1¾"	2 oz.
73 1946	15/16"	1½"	3 oz.
73 1962	1¾"	1½"	5 oz.



**A. 6 Point Standard Sockets**

Made of hardened alloy steel for strength. Designed with thin walls for easy access of fasteners in tight areas. Lead-in chamfer and deep serrations for easy use. Fully polished and chrome plated.

Item No.	Size	Length	Wt.
53 1112	3/8"	1 1/2"	2 oz.
53 1114	7/16"	1 1/2"	2 oz.
53 1116	1/2"	1 1/2"	2 oz.
53 1118	9/16"	1 1/2"	2 oz.
53 1120	5/8"	1 1/2"	2 oz.
53 1122	11/16"	1 1/2"	2 oz.
53 1124	3/4"	1 1/2"	3 oz.
53 1126	13/16"	1 1/2"	3 oz.
53 1128	7/8"	1 1/2"	3 oz.
53 1130	15/16"	1 1/2"	4 oz.
53 1132	1"	1 5/8"	5 oz.
53 1134	1 1/16"	1 5/8"	6 oz.
53 1136	1 1/8"	1 3/4"	6 oz.
53 1140	1 1/4"	1 3/4"	8 oz.

**B. 12 Point Standard Sockets**

Item No.	Size	Length	Wt.
53 3112	3/8"	1 1/2"	2 oz.
53 3114	7/16"	1 1/2"	2 oz.
53 3116	1/2"	1 1/2"	2 oz.
53 3118	9/16"	1 1/2"	2 oz.
53 3120	5/8"	1 1/2"	2 oz.
53 3122	11/16"	1 1/2"	3 oz.
53 3124	3/4"	1 1/2"	3 oz.
53 3126	13/16"	1 1/2"	3 oz.
53 3128	7/8"	1 1/2"	4 oz.
53 3130	15/16"	1 1/2"	4 oz.
53 3132	1"	1 5/8"	5 oz.
53 3134	1 1/16"	1 5/8"	6 oz.
53 3136	1 1/8"	1 3/4"	6 oz.
53 3140	1 1/4"	1 3/4"	8 oz.
53 3148	1 1/2"	1 3/4"	9 oz.

**C. 6 Point Deep Sockets**

Item No.	Size	Length	Wt.
53 1216	1/2"	3 1/4"	4 oz.
53 1218	9/16"	3 1/4"	4 oz.
53 1220	5/8"	3 1/4"	4 oz.
53 1222	11/16"	3 1/4"	4 oz.
53 1224	3/4"	3 1/4"	5 oz.
53 1226	13/16"	3 1/4"	6 oz.
53 1228	7/8"	3 1/4"	6 oz.
53 1230	15/16"	3 1/4"	7 oz.
53 1232	1"	3 1/4"	7 oz.
53 1234	1 1/16"	3 1/4"	9 oz.
53 1236	1 1/8"	3 1/4"	11 oz.

**D. 12 Point Deep Sockets**

Item No.	Size	Length	Wt.
53 3216	1/2"	3 1/4"	4 oz.
53 3218	9/16"	3 1/4"	4 oz.
53 3220	5/8"	3 1/4"	4 oz.
53 3222	11/16"	3 1/4"	4 oz.
53 3224	3/4"	3 1/4"	5 oz.
53 3226	13/16"	3 1/4"	6 oz.
53 3228	7/8"	3 1/4"	6 oz.
53 3230	15/16"	3 1/4"	7 oz.
53 3232	1"	3 1/4"	7 oz.
53 3234	1 1/16"	3 1/4"	10 oz.
53 3236	1 1/8"	3 1/4"	10 oz.

**E. 6 Point Spark Plug Sockets**

Extra deep sockets with cushion grip lining to hold and protect spark plugs.

Item No.	Size	Length	Wt.
53 1820	5/8"	2 3/4"	4 1/4 oz.
53 1826	13/16"	2 3/4"	4 1/4 oz.

**F. 6 Point Standard Impact Sockets**

Specially designed to withstand the stress of power impact tools.

Item No.	Size	Length	Wt.
53 1312	3/8"	1 1/2"	3 oz.
53 1314	7/16"	1 1/2"	3 oz.
53 1316	1/2"	1 1/2"	3 oz.
53 1318	9/16"	1 1/2"	3 oz.
53 1320	5/8"	1 1/2"	3 oz.
53 1322	11/16"	1 1/2"	4 oz.
53 1324	3/4"	1 1/2"	4 oz.
53 1326	13/16"	1 1/2"	4 oz.
53 1328	7/8"	1 1/2"	5 oz.
53 1330	15/16"	1 3/4"	8 oz.
53 1332	1"	1 3/4"	9 oz.
53 1334	1 1/16"	1 3/4"	10 oz.
53 1336	1 1/8"	1 3/4"	11 oz.

**Caution:** Always wear safety goggles when using impact tools. Only use impact sockets with power tools.

**G. 6 Point Deep Impact Sockets**

Designed for use with power impact tools.

Item No.	Size	Length	Wt.
53 1412	3/8"	3 1/4"	6 oz.
53 1414	7/16"	3 1/4"	6 oz.
53 1416	1/2"	3 1/4"	6 oz.
53 1418	9/16"	3 1/4"	6 oz.
53 1420	5/8"	3 1/4"	6 oz.
53 1422	11/16"	3 1/4"	7 oz.
53 1424	3/4"	3 1/4"	8 oz.
53 1426	13/16"	3 1/4"	9 oz.
53 1428	7/8"	3 1/4"	11 oz.
53 1430	15/16"	3 1/2"	13 oz.
53 1432	1"	3 1/2"	14 oz.
53 1434	1 1/16"	3 1/2"	16 oz.

**Caution:** Always wear safety goggles when using impact tools. Only use impact sockets with power tools.

**H. Double End Impact Socket**

The only socket needed for removing and assembling most wheel lugs with an impact gun.

Item No.	Size	Length	Wt.
53 1300	3/4" x 13/16"	2 1/4"	8 oz.

**Caution:** Always wear safety goggles when using impact tools. Only use impact sockets with power tools.

**I. Torx® Sockets**

1/2" drive T-60 internal Torx® socket.

Item No.	Length	Wt.
53 1560C	2 1/8"	4 oz.

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

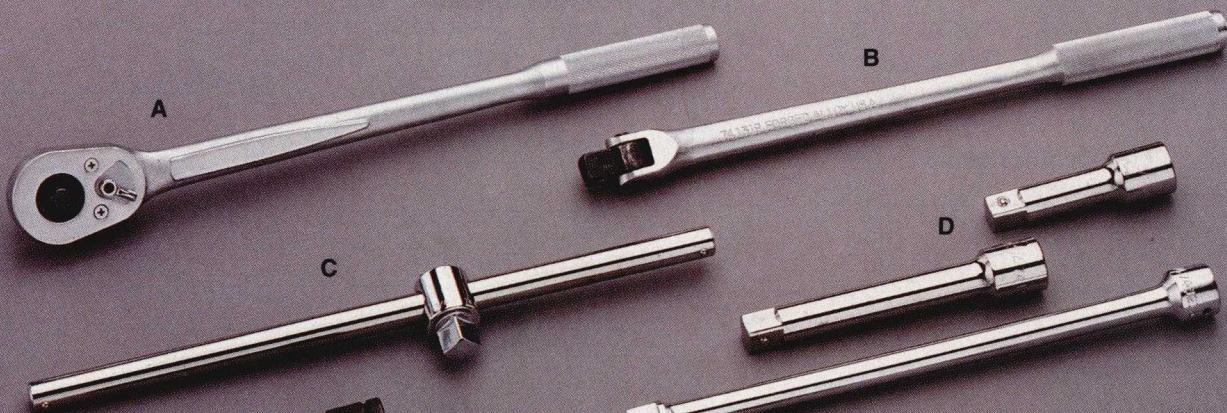
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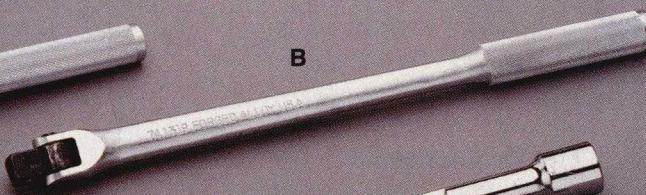
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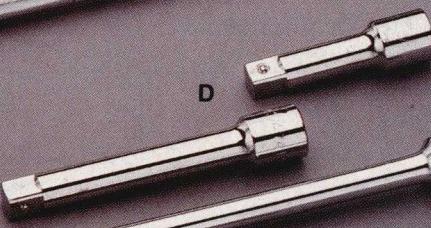
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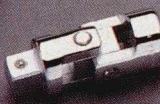
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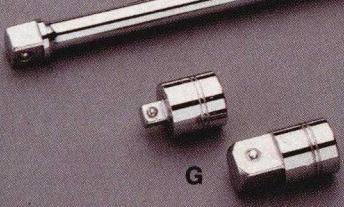
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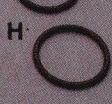
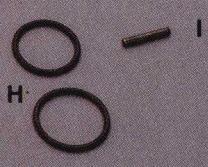
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F



G



I

**3/4" Drive Socket Sets**

Item No.	Size	91 404 23 Piece	91 405 13 Piece
54 3128	1/8" 12 PT Socket		
54 3130	5/16" 12 PT Socket	X	X
54 3132	1" 12 PT Socket	X	X
54 3134	11/16" 12 PT Socket	X	X
54 3136	1 1/8" 12 PT Socket	X	X
54 3138	1 1/4" 12 PT Socket	X	
54 3140	1 1/8" 12 PT Socket	X	X
54 3142	1 1/4" 12 PT Socket	X	
54 3144	1 1/8" 12 PT Socket	X	X
54 3146	1 1/4" 12 PT Socket	X	X
54 3148	1 1/2" 12 PT Socket	X	X
54 3150	1 1/8" 12 PT Socket	X	
54 3152	1 5/8" 12 PT Socket	X	X
54 3154	1 1/4" 12 PT Socket	X	
54 3156	1 1/4" 12 PT Socket	X	
54 3158	1 1/4" 12 PT Socket	X	
54 3160	1 1/8" 12 PT Socket	X	
54 3164	2" 12 PT Socket	X	
54 3168	2 1/8" 12 PT Socket		
54 3170	2 1/4" 12 PT Socket		
54 3172	2 1/4" 12 PT Socket		
54 3176	2 1/8" 12 PT Socket		
74 1122	Quick Release Ratchet	X	X
74 1205	5" Extension	X	
74 1208	8" Extension	X	X
74 1216	16" Extension	X	X
74 1319	19" Flex Handle	X	X
74 1824	Sliding Tee Handle	X	
	Packaging	Metal Box	Metal Box

**A. 3/4" Drive Quick Release Ratchet**

This heavy duty quick release ratchet contains a precision broached 36 tooth gear and a double tooth pawl profile for greater strength and durability. Features 10° swing arc. The reversing lever is easily accessible for changing the drive direction. The quick release feature makes removal and attachment of sockets effortless. Knurled handle design ensures a secure, comfortable grip.

Item No.	Description	Length	Wt.
74 1122	Quick Release Ratchet	19 1/2"	5 lbs. 9 oz.
74 1122R	Ratchet Renewal Kit		

**B. Flex Handle**

Drive pivots 180°. Heavy duty construction. Breaks tight nuts free in limited access locations.

Item No.	Length	Wt.
74 1319	19"	2 lbs. 11 oz.

**C. Sliding Tee Handle**

Square drive slides on round bar for "Tee Handle" turning operation.

Item No.	Length	Wt.
74 1824	18"	3 lbs. 3 oz.

**D. Heavy Duty Extensions**

Extends ratchet from fasteners for more freedom of ratchet movement.

Item No.	Length	Wt.
74 1205	5"	14 oz.
74 1208	8"	1 lb. 7 oz.
74 1216	16"	2 lbs. 10 oz.

**E. Impact Extension**

Designed for use with power tools to reach fasteners in limited access areas.

Item No.	Length	Wt.
74 2207	7"	1 lb. 10 oz.

**Caution:** Always wear safety goggles when using impact tools. Only use impact sockets with power tools.

**F. Universal Joint**

Use to turn fasteners that are not in a straight ahead area.

Item No.	Length	Wt.
74 1716	4"	1 lb. 8 oz.

**G. Adapters**

Connects 1/2" and 1" drive sockets to 3/4" drive tools.

Item No.	Description	Length	Wt.
74 1201	3/4" x 1/2" Reducing	2"	12 oz.
74 1202	3/4" x 1" Increasing	1 1/2"	12 oz.

**H. O Rings****Item No.**

74 1825 – Fits the following 3/4" drive 6 point impact sockets:

54 1324	54 1336	54 1830
54 1326	54 1338	54 1832
54 1328	54 1824	54 1836
54 1330	54 1826	54 1600 Budd Wheel Socket
54 1332	54 1828	74 2207 Extension
54 1334		

**Item No.**

74 1826 – Fits the following 3/4" drive 6 point impact sockets:

54 1340	54 1346	54 1840
54 1342	54 1348	54 1848
54 1344		

**Caution:** Always wear safety goggles when using impact tools. Only use impact sockets with power tools.

**I. Retaining Pin****Item No.**

74 1828 – Fits the following 3/4" drive 6 point impact sockets:

54 1324	54 1340	54 1830
54 1326	54 1342	54 1832
54 1328	54 1344	54 1834
54 1330	54 1346	54 1836
54 1332	54 1348	54 1840
54 1334	54 1824	54 1848
54 1336	54 1826	54 1600 Budd Wheel Socket
54 1338	54 1828	74 2207 Extension

**Caution:** Always wear safety goggles when using impact tools. Only use impact sockets with power tools.



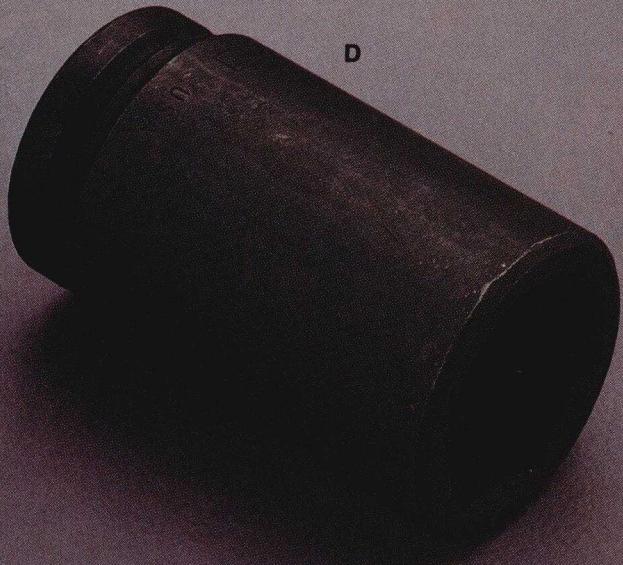
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B



C



D

**A. 12 Point Standard Sockets**

Item No.	Size	Length	Wt.
54 3128	7/8"	1 1/8"	5 oz.
54 3130	15/16"	1 1/8"	5 oz.
54 3132	1"	1 1/8"	5 oz.
54 3134	1 1/16"	2"	5 oz.
54 3136	1 1/8"	2"	5 oz.
54 3138	1 3/16"	2 1/8"	7 oz.
54 3140	1 1/4"	2 1/8"	8 oz.
54 3142	1 5/16"	2 1/8"	9 oz.
54 3144	1 3/8"	2 3/16"	10 oz.
54 3146	1 7/16"	2 1/4"	11 oz.
54 3148	1 1/2"	2 5/16"	11 oz.
54 3150	1 9/16"	2 3/8"	13 oz.
54 3152	1 5/8"	2 3/8"	13 oz.
54 3154	1 11/16"	2 7/16"	1 lb.
54 3156	1 3/4"	2 1/2"	1 lb. 1 oz.
54 3158	1 13/16"	2 9/16"	1 lb. 3 oz.
54 3160	1 7/8"	2 5/8"	1 lb. 6 oz.
54 3164	2"	2 11/16"	1 lb. 11 oz.
54 3168	2 1/8"	2 13/16"	1 lb. 14 oz.
54 3170	2 3/16"	2 7/8"	2 lbs.
54 3172	2 1/4"	2 15/16"	2 lbs. 2 oz.
54 3176	2 3/8"	3"	2 lbs. 6 oz.

**B. 6 Point Standard Impact Sockets**

Designed for use with power impact tools.

Item No.	Size	Length	Wt.
54 1324	3/4"	2 1/8"	11 oz.
54 1326	13/16"	2 1/8"	11 oz.
54 1328	7/8"	2 1/8"	12 oz.
54 1330	15/16"	2 1/8"	13 oz.
54 1332	1"	2 1/8"	14 oz.
54 1334	1 1/16"	2 1/8"	14 oz.
54 1336	1 1/8"	2 1/8"	14 oz.
54 1338	1 9/16"	2 1/4"	1 lb. 1 oz.
54 1340	1 1/4"	2 1/4"	1 lb. 2 oz.
54 1342	1 5/16"	2 1/4"	1 lb. 7 oz.
54 1344	1 3/8"	2 1/2"	1 lb. 9 oz.
54 1346	1 7/16"	2 1/2"	1 lb. 9 oz.
54 1348	1 1/2"	2 1/2"	1 lb. 9 oz.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

**C. 6 Point Deep Impact Sockets**

Designed for use with power impact tools.

Item No.	Size	Length	Wt.
54 1824	3/4"	3 1/2"	1 lb.
54 1826	13/16"	3 1/2"	1 lb.
54 1828	7/8"	3 1/2"	1 lb.
54 1830	15/16"	3 1/2"	1 lb. 3 oz.
54 1832	1"	3 1/2"	1 lb. 3 oz.
54 1834	1 1/16"	3 1/2"	1 lb. 4 oz.
54 1836	1 1/8"	3 1/2"	1 lb. 8 oz.
54 1840	1 1/4"	3 1/2"	2 lbs. 5 oz.
54 1848	1 1/2"	3 1/2"	2 lbs. 5 oz.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

**D. Budd Wheel Socket**

Removes and installs Budd type wheel fasteners. Socket has two openings, 3/16" square and 1 1/2" hex, eliminating the need for two separate sockets. Designed for use with power impact tools.

Item No.	Length	Wt.
54 1600	4"	2 lbs.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**



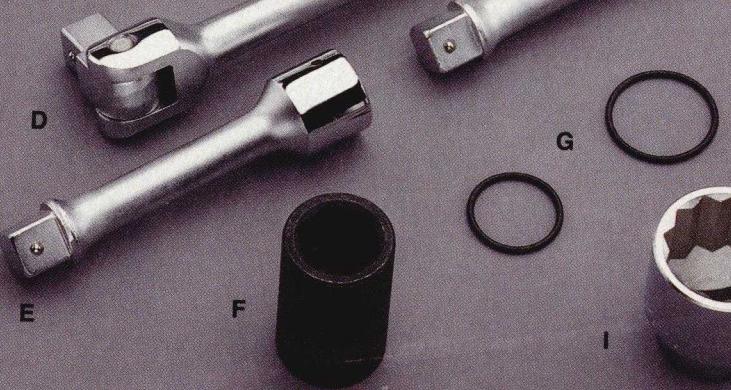
A



B



C



D



E



F



G



H



J

### A. 91 622 1" Drive Socket Set

Item No.	Description	Item No.	Description
55 3146	1 1/2" 12 PT Socket	55 3182	2 1/16" 12 PT Socket
55 3148	1 1/2" 12 PT Socket	55 3184	2 5/8" 12 PT Socket
55 3152	1 5/8" 12 PT Socket	55 3188	2 3/4" 12 PT Socket
55 3158	1 13/16" 12 PT Socket	55 3194	2 15/16" 12 PT Socket
55 3160	1 7/8" 12 PT Socket	55 3196	3" 12 PT Socket
55 3164	2" 12 PT Socket	55 3199	3 1/8" 12 PT Socket
55 3168	2 1/8" 12 PT Socket	75 1130	Ratchet 30"
55 3170	2 1/4" 12 PT Socket	75 1208	8" Extension
55 3172	2 3/8" 12 PT Socket	75 1217	17" Extension
55 3176	2 5/8" 12 PT Socket	75 1326	Flex Handle
55 3180	2 13/16" 12 PT Socket	75 1822	Sliding Tee Handle Metal Box

### B. Ratchet

Heavy duty ratchet. Solid, one piece knurled handle for sure non-slip grip.

Item No.	Description	Length	Wt.
75 1130	Ratchet	30"	8 lbs.
75 1105	Ratchet Renewal Kit		

### C. Sliding Tee Handle

Square drive slides on round bar for "Tee Handle" turning operation.

Item No.	Length	Wt.
75 1822	22"	4 lbs. 12 oz.

### D. Flex Handle

Heavy duty breaker bar with 180° pivoting head.

Item No.	Length	Wt.
75 1326	26"	8 lbs. 3 oz.

### E. Extensions

Extends ratchet from fasteners for more freedom of ratchet movement.

Item No.	Length	Wt.
75 1208	8"	2 lbs. 5 oz.
75 1217	17"	4 lbs. 5 oz.

### F. Budd Wheel Socket

Removes and installs Budd type wheel fasteners. Socket has two openings, 13/16" square and 1 1/2" hex, eliminating the need for two separate sockets. Designed for use with power impact tools.

Item No.	Length	Wt.
55 1100	4"	2 lbs.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

### G. O Rings

#### Item No.

75 1824 – Fits the following 1" drive 6 point standard impact sockets:

55 1126	55 1132	55 1138	55 1144	55 1150
55 1128	55 1134	55 1140	55 1146	55 1152
55 1130	55 1136	55 1142	55 1148	55 1154

#### Item No.

75 1826 – Fits the following 1" drive 6 point standard impact sockets:

55 1156	55 1162	55 1170	55 1176
55 1158	55 1164	55 1172	55 1180
55 1160	55 1168	55 1174	55 1100 Budd Wheel Socket

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

### H. Retaining Pins

#### Item No.

75 1828 – Fits the following 1" drive 6 point standard impact sockets:

55 1126	55 1134	55 1142	55 1150
55 1128	55 1136	55 1144	55 1152
55 1130	55 1138	55 1146	55 1154
55 1132	55 1140	55 1148	54 1600 3/4" Dr. Budd Wh. Skt.

#### Item No.

75 1830 – Fits the following 1" drive 6 point standard impact sockets:

55 1156	55 1162	55 1170	55 1176
55 1158	55 1164	55 1172	55 1180
55 1160	55 1168	55 1174	55 1100 Budd Wheel Socket

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

### I. 12 Point Standard Sockets

Item No.	Size	Length	Wt.
55 3146	1 7/16"	2 1/2"	1 lb.
55 3148	1 1/2"	2 9/16"	1 lb. 4 oz.
55 3152	1 5/8"	2 11/16"	1 lb. 4 oz.
55 3158	1 13/16"	2 7/8"	1 lb. 12 oz.
55 3160	1 7/8"	2 15/16"	2 lbs. 4 oz.
55 3164	2"	3"	2 lbs. 4 oz.
55 3168	2 1/8"	3"	2 lbs. 8 oz.
55 3170	2 9/16"	3"	2 lbs. 12 oz.
55 3172	2 1/4"	3 13/16"	2 lbs. 12 oz.
55 3176	2 5/8"	3 5/16"	3 lbs. 4 oz.
55 3180	2 1/2"	3 7/16"	3 lbs. 4 oz.
55 3182	2 9/16"	3 7/16"	3 lbs. 4 oz.
55 3184	2 5/8"	3 9/16"	3 lbs. 8 oz.
55 3188	2 3/4"	3 11/16"	4 lbs. 8 oz.
55 3194	2 15/16"	3 7/8"	5 lbs. 4 oz.
55 3196	3"	3 15/16"	5 lbs. 8 oz.
55 3199	3 1/8"	4 1/16"	6 lbs.

### J. 6 Point Standard Impact Sockets

Ideal for industrial and construction jobs. Designed for use with power impact tools.

Item No.	Size	Length	Wt.
55 1126	3/4"	2 1/4"	1 lb.
55 1128	7/8"	2 9/32"	1 lb.
55 1130	15/16"	2 9/32"	1 lb.
55 1132	1"	2 17/32"	1 lb.
55 1134	1 1/16"	2 17/32"	1 lb.
55 1136	1 1/8"	2 13/32"	1 lb.
55 1138	1 3/16"	2 17/32"	1 lb. 8 oz.
55 1140	1 1/4"	2 17/32"	1 lb. 8 oz.
55 1142	1 5/16"	2 17/32"	1 lb. 8 oz.
55 1144	1 3/8"	2 1/2"	1 lb. 8 oz.
55 1146	1 7/16"	2 1/2"	1 lb. 8 oz.
55 1148	1 1/2"	2 1/2"	1 lb. 8 oz.
55 1150	1 9/16"	2 1/2"	1 lb. 12 oz.
55 1152	1 5/8"	2 1/2"	1 lb. 12 oz.
55 1154	1 11/16"	2 5/8"	2 lbs. 8 oz.
55 1156	1 3/4"	2 5/8"	2 lbs. 8 oz.
55 1158	1 13/16"	2 5/8"	2 lbs. 8 oz.
55 1160	1 7/8"	2 3/4"	2 lbs. 8 oz.
55 1162	1 15/16"	2 3/4"	2 lbs. 12 oz.
55 1164	2"	2 7/8"	2 lbs. 12 oz.
55 1168	2 1/8"	3"	3 lbs. 4 oz.
55 1170	2 1/16"	3"	3 lbs. 4 oz.
55 1172	2 1/4"	3"	3 lbs. 8 oz.
55 1174	2 5/16"	3 1/16"	3 lbs. 8 oz.
55 1176	2 3/8"	3 1/16"	3 lbs. 8 oz.
55 1180	2 1/2"	3 1/16"	3 lbs. 8 oz.

**Caution: Always wear safety goggles when using impact tools. Only use impact sockets with power tools.**

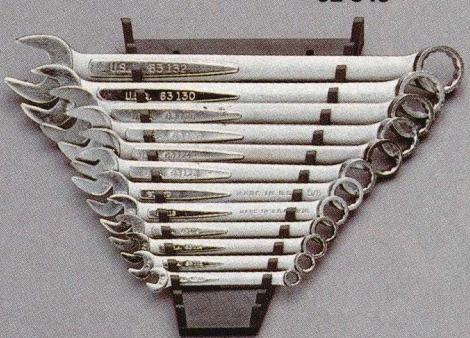
**92 305**



**92 322**



**92 343**



**92 306**



**92 348**



**92 311**



**92 309**



**92 310**

**SAE Combination Wrench Sets**

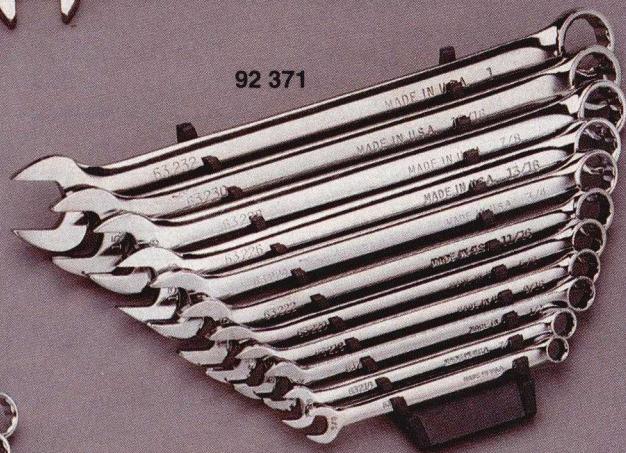
Item No.	Size	92 305 14 Piece	92 322 10 Piece	92 343 12 Piece	92 306 13 Piece	92 311 9 Piece	92 348 7 Piece	92 309 6 Piece	92 310 10 Piece
63 108	1/4" 12 PT				X	X		X	
63 110	5/16" 12 PT			X	X	X			
63 112	3/8" 12 PT	X		X	X	X	X	X	
63 114	7/16" 12 PT	X		X	X	X	X	X	
63 116	1/2" 12 PT	X		X	X	X	X	X	
63 118	9/16" 12 PT	X		X	X	X	X	X	
63 120	5/8" 12 PT	X		X	X	X	X	X	
63 122	11/16" 12 PT	X		X	X	X	X		
63 124	3/4" 12 PT	X		X	X	X	X		
63 126	13/16" 12 PT	X		X	X				
63 128	7/8" 12 PT	X		X	X				
63 130	15/16" 12 PT	X		X	X				
63 132	1" 12 PT	X		X	X				
63 134	1 1/16" 12 PT	X							
63 136	1 1/8" 12 PT	X							
63 140	1 1/4" 12 PT	X							
63 142	1 5/16" 12 PT			X					
63 144	1 3/8" 12 PT			X					
63 146	1 7/16" 12 PT			X					
63 148	1 1/2" 12 PT			X					
63 152	1 5/8" 12 PT			X					
63 154	1 11/16" 12 PT			X					
63 156	1 3/4" 12 PT			X					
63 158	1 13/16" 12 PT			X					
63 160	1 7/8" 12 PT			X					
63 164	2" 12 PT			X					
63 810	5/16" 6 PT								X
63 812	3/8" 6 PT								X
63 814	7/16" 6 PT								X
63 816	1/2" 6 PT								X
63 818	9/16" 6 PT								X
63 820	5/8" 6 PT								X
63 822	11/16" 6 PT								X
63 824	3/4" 6 PT								X
66 010	5/32" x 3/16" Midget								
66 012	3/16" x 5/32" Midget								
66 014	19/64" x 7/32" Midget								
66 015	7/32" x 19/64" Midget								
66 016	15/64" x 1/4" Midget								
66 018	1/4" x 9/32" Midget								
66 020	9/32" x 5/16" Midget								
66 022	5/16" x 11/32" Midget								
66 024	11/32" x 3/8" Midget								
66 028	3/8" x 7/16" Midget								
	Packaging	Tool Roll	Box	Wrench Rack	Wrench Rack	Wrench Rack	Wrench Rack	Pouch	Pouch

**WRENCHES COMBINATION SETS**

92 370



92 371



92 372



A



B



C



D



E



F



**SAE Fully Polished Combination Wrench Sets**

Item No.	Size	92 370 14 Piece	92 371 11 Piece	92 372 6 Piece
63 212	3/8"	X	X	X
63 214	7/16"	X	X	X
63 216	1/2"	X	X	X
63 218	9/16"	X	X	X
63 220	5/8"	X	X	X
63 222	11/16"	X	X	X
63 224	3/4"	X	X	
63 226	13/16"	X	X	
63 228	7/8"	X	X	
63 230	15/16"	X	X	
63 232	1"	X	X	
63 234	1 1/16"	X		
63 236	1 1/8"	X		
63 240	1 1/4"	X		
	Packaging	Tool	Wrench	Wrench
		Roll	Rack	Rack

**A. 12 Point Fully Polished Combination Wrenches**

Item No.	Size	Length	Wt.
63 212	3/8"	5 3/4"	1 1/2 oz.
63 214	7/16"	6 9/16"	2 oz.
63 216	1/2"	7 5/16"	3 oz.
63 218	9/16"	8 1/8"	3 1/2 oz.
63 220	5/8"	8 15/16"	5 oz.
63 222	11/16"	9 3/4"	6 1/2 oz.
63 224	3/4"	10 1/2"	8 oz.
63 226	19/16"	11 1/4"	9 oz.
63 228	7/8"	12 1/16"	11 oz.
63 230	15/16"	12 7/8"	13 1/4 oz.
63 232	1"	13 3/4"	1 lb.
63 234	1 1/16"	14 1/2"	1 lb. 3 3/4 oz.
63 236	1 1/8"	15 1/4"	1 lb. 5 3/4 oz.
63 240	1 1/4"	16 7/8"	1 lb. 12 3/4 oz.

**B. 12 Point Combination Wrenches**

Item No.	Size	Length	Wt.
63 108	1/4"	4"	1 oz.
63 110	5/16"	4 3/8"	1 oz.
63 112	3/8"	5 1/4"	1 oz.
63 114	7/16"	5 3/4"	2 oz.
63 116	1/2"	6 1/2"	3 oz.
63 118	9/16"	7 1/8"	4 oz.
63 120	5/8"	8"	5 oz.
63 122	11/16"	8 3/4"	6 oz.
63 124	3/4"	9 5/8"	7 oz.
63 126	13/16"	10 1/2"	8 oz.
63 128	7/8"	11 1/2"	10 oz.
63 130	15/16"	12 1/2"	13 oz.
63 132	1"	13 1/2"	1 lb. 0 oz.
63 134	1 1/16"	14 5/8"	1 lb. 3 oz.
63 136	1 1/8"	15 1/2"	1 lb. 6 oz.
63 140	1 1/4"	16 7/8"	1 lb. 9 oz.
63 142	1 5/16"	17 1/2"	1 lb. 10 oz.
63 144	1 3/8"	18 1/2"	1 lb. 11 oz.
63 146	1 7/16"	19 1/4"	1 lb. 12 oz.
63 148	1 1/2"	21 5/16"	3 lbs. 0 oz.
63 152	1 5/8"	22 3/4"	3 lbs. 13 oz.
63 154	1 11/16"	22 3/4"	6 lbs. 13 oz.
63 156	1 3/4"	26"	6 lbs. 14 oz.
63 158	1 13/16"	26"	6 lbs. 14 oz.
63 160	1 7/8"	26"	6 lbs. 14 oz.
63 164	2"	26"	6 lbs. 14 oz.

**C. 6 Point Combination Wrenches**

Chamfered lead-ins for easy access. Broached 6 point box end. Polished heads and panels.

Item No.	Size	Length	Wt.
63 810	5/16"	4 1/4"	2 oz.
63 812	3/8"	5 1/8"	2 oz.
63 814	7/16"	5 7/8"	2 oz.
63 816	1/2"	6 5/8"	3 oz.
63 818	9/16"	7 1/2"	4 oz.
63 820	5/8"	8 3/8"	4 oz.
63 822	11/16"	9 1/8"	4 oz.
63 824	3/4"	10"	6 oz.

**D. 6 and 12 Point Midget Combination Wrenches**

Item No.	Size	Length	Wt.
66 010	5/32" x 3/16" 6 PT	2 3/4"	1/2 oz.
66 012	3/16" x 5/32" 6 PT	2 7/8"	1/2 oz.
66 014	13/64" x 7/32" 12 PT	3"	1/2 oz.
66 015	7/32" x 15/64" 12 PT	3"	1/2 oz.
66 016	15/64" x 1/4" 12 PT	3 1/8"	1/2 oz.
66 018	1/4" x 9/32" 12 PT	3 1/4"	1/2 oz.
66 020	9/32" x 15/64" 12 PT	3 1/2"	1/2 oz.
66 022	15/64" x 1 1/32" 12 PT	3 5/8"	1/2 oz.
66 024	1 1/32" x 3/8" 12 PT	3 3/4"	1/2 oz.
66 028	3/8" x 7/16" 12 PT	3 7/8"	1/2 oz.

**E. 91 520C 10 Piece 3/8" Drive Crowfoot Wrench Set**

Contents:			
64 112	3/8"	64 122	11/16"
64 114	7/16"	64 124	3/4"
64 116	1/2"	64 126	13/16"
64 118	9/16"	64 128	7/8"
64 120	5/8"	64 132	1"

**F. Crowfoot Wrenches**

Versatile open end wrenches fit 3/8" drive tools.

Item No.	Size	Length	Wt.
64 112	3/8"	1 13/16"	1 oz.
64 114	7/16"	1 5/8"	1 oz.
64 116	1/2"	1 3/8"	1 oz.
64 118	9/16"	1 1/2"	1 1/2 oz.
64 120	5/8"	1 5/8"	1 1/2 oz.
64 122	1 1/16"	1 3/4"	1 1/2 oz.
64 124	3/4"	1 3/16"	2 oz.
64 126	13/16"	1 5/16"	2 1/2 oz.
64 128	7/8"	2 1/16"	2 1/2 oz.
64 132	1"	2 1/4"	3 oz.



92 106

92 108



92 160



A

B



C

D

E

F

**Open End Wrench Sets**

Item No.	Description	92 106 6 Piece	92 108 5 Piece	92 160 8 Piece
61 108	3/16" x 1/4"			
61 110	1/4" x 5/16"	X	X	
61 112	5/16" x 3/8"			
61 114	3/8" x 7/16"	X	X	
61 116	7/16" x 1/2"			
61 118	1/2" x 9/16"	X	X	
61 120	9/16" x 5/8"	X		
61 122	11/16" x 3/4"			
61 124	5/8" x 3/4"		X	
61 126	11/16" x 13/16"	X	X	
61 127	3/4" x 13/16"			
61 128	9/16" x 7/8"			
61 132	15/16" x 1"			
61 136	1 1/16" x 1 1/8"			
61 142	1 1/4" x 1 5/16"			
66 114	7/32" Midget Wrench			X
66 115	15/64" Midget Wrench		X	
66 116	1/4" Midget Wrench			X
66 118	9/32" Midget Wrench			X
66 120	5/16" Midget Wrench			X
66 122	11/32" Midget Wrench		X	
66 124	3/8" Midget Wrench			X
66 128	7/16" Midget Wrench			X
	Packaging	Pouch	Pouch	Pouch

**A. 92 170 7 Piece Combination Open End/Socket Wrench Set**
**Contents:**

69 112	3/8" 12 PT
69 114	7/16" 12 PT
69 116	1/2" 12 PT
69 118	9/16" 12 PT
69 120	5/8" 12 PT
69 122	11/16" 12 PT
69 124	3/4" 12 PT

**B. Combination Open End/Socket Wrenches**

Combines the convenience of a socket with an open end wrench. Socket swivels 180°. Chamfered lead-ins for easy access.

Item No.	Size	Length	Wt.
69 112	3/8" 12 PT	7 1/4"	3 oz.
69 114	7/16" 12 PT	7 7/8"	3 oz.
69 116	1/2" 12 PT	8 1/8"	4 oz.
69 118	9/16" 12 PT	8 3/4"	5 oz.
69 120	5/8" 12 PT	9 1/4"	6 oz.
69 122	11/16" 12 PT	9 9/16"	7 oz.
69 124	3/4" 12 PT	10 3/8"	10 oz.

**C. Open End Wrenches**

Polished heads and panels with easy to read sizes. Chamfered lead-ins to easily fit fasteners. Ends offset 15°.

Item No.	Size	Length	Wt.
61 108	3/16" x 1/4"	3 7/8"	3/4 oz.
61 110	1/4" x 5/16"	4 1/4"	3/4 oz.
61 112	5/16" x 3/8"	4 13/16"	1 oz.
61 114	3/8" x 7/16"	5 1/4"	2 oz.
61 116	7/16" x 1/2"	5 3/4"	2 oz.
61 118	1/2" x 9/16"	6 1/8"	3 oz.
61 120	9/16" x 5/8"	7"	4 oz.
61 122	11/16" x 3/4"	7 3/4"	5 oz.
61 124	5/8" x 3/4"	7 7/8"	6 oz.
61 126	11/16" x 13/16"	7 7/8"	6 oz.
61 127	3/4" x 13/16"	9 1/8"	7 oz.
61 128	9/16" x 7/8"	9 3/8"	8 oz.
61 132	15/16" x 1"	10 3/4"	12 oz.
61 136	1 1/16" x 1 1/8"	12"	15 oz.
61 142	1 1/4" x 1 5/16"	12 1/2"	16 oz.

**D. Midget Open End Wrenches**

15° offset angle one end, 80° angle other end.

Item No.	Size	Length	Wt.
66 114	7/32"	3 1/8"	1/2 oz.
66 115	15/64"	3 1/8"	1/2 oz.
66 116	1/4"	3 1/4"	1/2 oz.
66 118	9/32"	3 1/2"	1/2 oz.
66 120	5/16"	3 5/8"	1/2 oz.
66 122	11/32"	3 3/4"	1/2 oz.
66 124	3/8"	3 7/8"	1/2 oz.
66 128	7/16"	4 1/8"	1/2 oz.

**E. 92 530 3 Piece Flare Nut Wrench Set**
**Contents:**

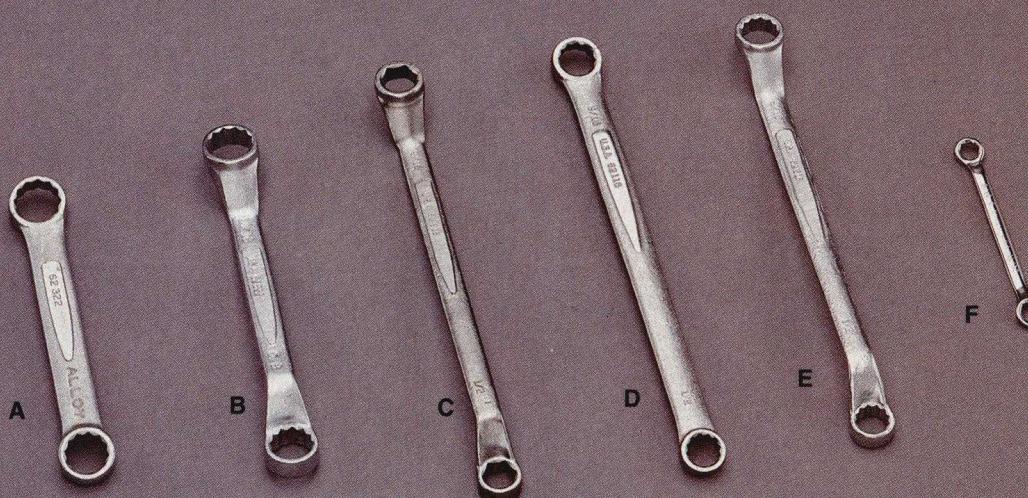
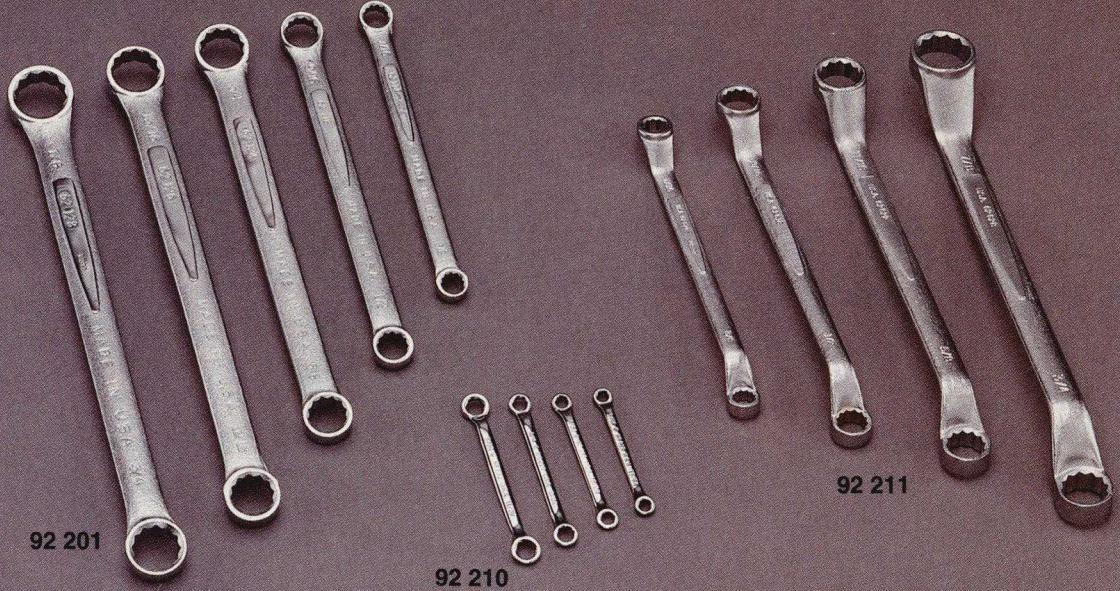
60 114	3/8" x 7/16"
60 118	1/2" x 9/16"
60 122	5/8" x 11/16"

Vinyl Pouch

**F. Flare Nut Wrenches**

Specially designed to turn soft flare nuts without rounding corners.

Item No.	Size	Length	Wt.
60 114	3/8" x 7/16"	6"	2 oz.
60 118	1/2" x 9/16"	6 3/4"	3 oz.
60 122	5/8" x 11/16"	7 5/8"	5 oz.
60 128	3/4" x 7/8"	8"	6 oz.



**Box End Wrench Sets**

Item No.	Size	92 201 5 Piece	92 210 4 Piece	92 211 4 Piece
62 110	1/4" x 5/16" 12 PT 15° Long			
62 114	3/8" x 7/16" 12 PT 15° Long	X		
62 116	7/16" x 1/2" 12 PT 15° Long			
62 118	1/2" x 9/16" 12 PT 15° Long	X		
62 120	9/16" x 5/8" 12 PT 15° Long			
62 124	5/8" x 3/4" 12 PT 15° Long	X		
62 126	11/16" x 13/16" 12 PT 15° Long	X		
62 128	3/4" x 7/8" 12 PT 15° Long	X		
62 129	13/16" x 7/8" 12 PT 15° Long			
62 132	15/16" x 1" 12 PT 15° Long			
62 314	3/8" x 7/16" 12 PT 15° Short			
62 318	1/2" x 9/16" 12 PT 15° Short			
62 322	5/8" x 11/16" 12 PT 15° Short			
62 614	3/8" x 7/16" 12 PT 45° Long		X	
62 616	7/16" x 1/2" 12 PT 45° Long			
62 618	1/2" x 9/16" 12 PT 45° Long		X	
62 620	9/16" x 5/8" 12 PT 45° Long			
62 622	5/8" x 11/16" 12 PT 45° Long		X	
62 624	3/4" x 5/8" 12 PT 45° Long			
62 628	3/4" x 7/8" 12 PT 45° Long		X	
62 814	3/8" x 7/16" 12 PT 45° Short			
62 816	7/16" x 1/2" 12 PT 45° Short			
62 818	1/2" x 9/16" 12 PT 45° Short			
62 822	5/8" x 11/16" 12 PT 45° Short			
63 912	3/8" x 7/16" 6 PT 45° Long			
63 916	1/2" x 9/16" 6 PT 45° Long			
66 213	3/16" x 13/64" 6 PT Midget		X	
66 215	7/32" x 15/64" 6 PT Midget		X	
66 218	1/4" x 9/32" 6 PT Midget		X	
66 222	5/16" x 11/32" 6 PT Midget		X	
	Packaging	Pouch	Pouch	Pouch

**A. 12 Point 15° Short Box End Wrenches**

Item No.	Size	Length	Wt.
62 314	3/8" x 7/16"	4 7/8"	1 oz.
62 318	1/2" x 9/16"	5 1/2"	2 oz.
62 322	5/8" x 11/16"	6 1/8"	4 oz.

**B. 12 Point 45° Short Box End Wrenches**

Short handle and offset head combine for easy access in tight places.

Item No.	Size	Length	Wt.
62 814	3/8" x 7/16"	4 7/8"	1 oz.
62 816	7/16" x 1/2"	5"	2 1/2 oz.
62 818	1/2" x 9/16"	5 1/2"	3 oz.
62 822	5/8" x 11/16"	6 1/8"	4 oz.

**C. 6 Point 45° Long Box End Wrenches**

45° offset handle reaches deep set and hard to get at nuts and bolts.

Item No.	Size	Length	Wt.
63 912	3/8" x 7/16"	7 3/4"	2 oz.
63 916	1/2" x 9/16"	9 1/8"	4 oz.

**D. 12 Point 15° Long Box Wrenches**

Long handle for extra leverage.

Item No.	Size	Length	Wt.
62 110	1/4" x 5/16"	7 1/2"	2 oz.
62 114	3/8" x 7/16"	7 3/4"	2 oz.
62 116	7/16" x 1/2"	8 1/2"	3 oz.
62 118	1/2" x 9/16"	9 1/8"	4 oz.
62 120	9/16" x 5/8"	9 7/8"	5 oz.
62 124	5/8" x 3/4"	10 1/2"	7 oz.
62 126	11/16" x 13/16"	11 7/8"	9 oz.
62 128	3/4" x 7/8"	12 5/8"	10 oz.
62 129	13/16" x 7/8"	12 5/8"	10 oz.
62 132	15/16" x 1"	15 3/8"	1 lb. 1 oz.

**E. 12 Point 45° Long Box End Wrenches**

45° offset handle reaches deep set and hard to get at nuts and bolts.

Item No.	Size	Length	Wt.
62 614	3/8" x 7/16"	7 3/4"	2 oz.
62 616	7/16" x 1/2"	8 1/2"	3 oz.
62 618	1/2" x 9/16"	9 1/2"	4 oz.
62 620	9/16" x 5/8"	9 7/8"	5 oz.
62 622	5/8" x 11/16"	9 15/16"	7 oz.
62 624	3/4" x 5/8"	10 1/2"	7 oz.
62 628	3/4" x 7/8"	12 5/8"	10 oz.

**F. 6 Point Midget Box End Wrenches**

Item No.	Size	Length	Wt.
66 213	3/16" x 13/64"	3"	1/2 oz.
66 215	7/32" x 15/64"	3 1/4"	1/2 oz.
66 218	1/4" x 9/32"	3 5/8"	1/2 oz.
66 222	5/16" x 11/32"	4"	1/2 oz.

**G. 92 510 4 Piece Ratcheting Box Wrench Set**
**Contents:**

62 410	1/4" x 5/16" 6 PT
62 414	3/8" x 7/16" 6 PT
62 418	1/2" x 9/16" 6 PT
62 422	5/8" x 11/16" 12 PT

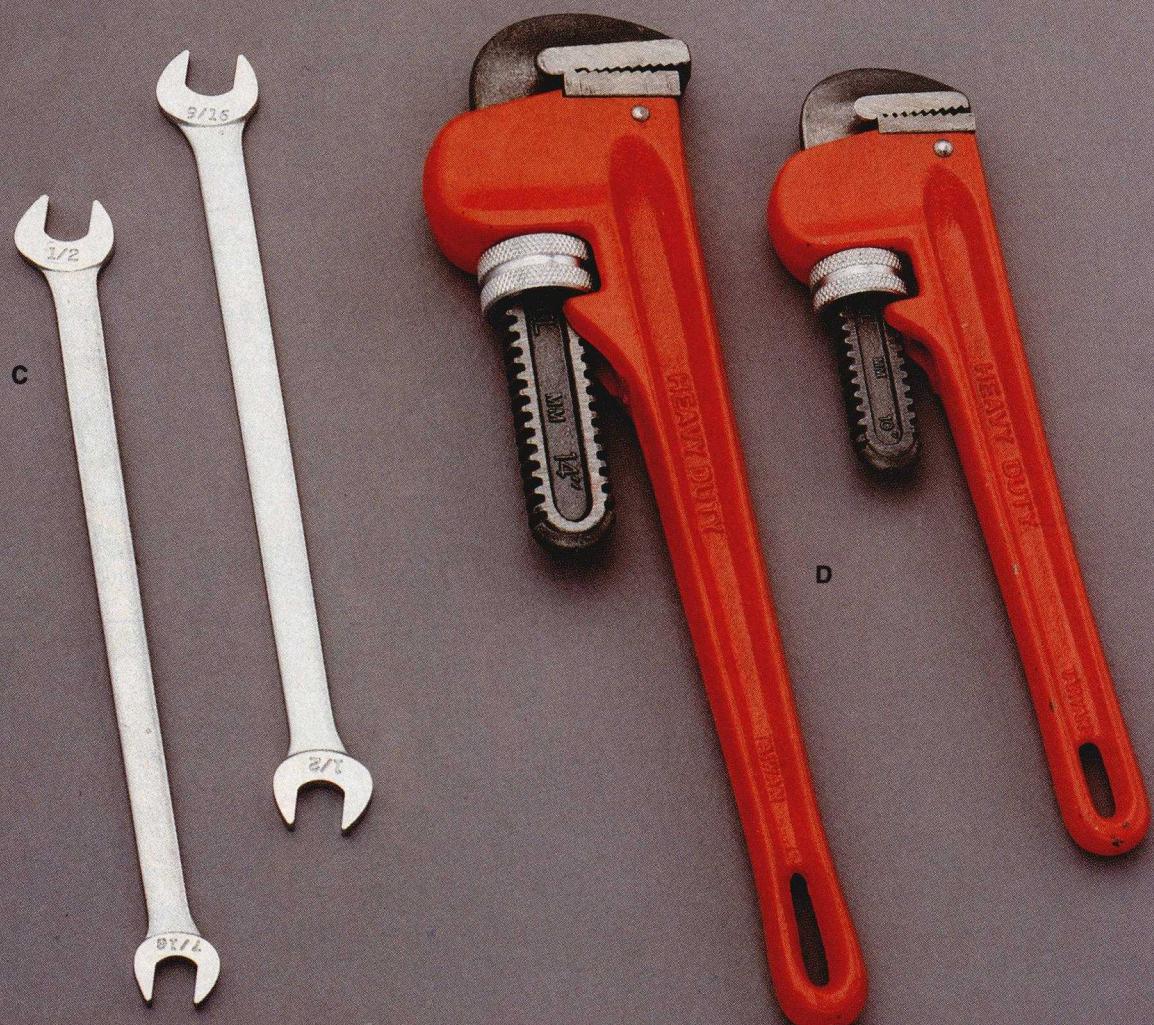
**H. Ratcheting Box End Wrenches**

Item No.	Size	Length	Wt.
62 410	1/4" x 5/16"	4 1/2"	2 oz.
62 414	3/8" x 7/16"	5 1/2"	2 1/2 oz.
62 418	1/2" x 9/16"	6 3/4"	4 oz.
62 422	5/8" x 11/16"	8 1/8"	10 oz.
62 428	3/4" x 7/8"	9 1/4"	10 oz.
62 430	13/16" x 15/16"	9 1/4"	11 oz.

**I. 12 Point Half Moon Manifold Wrench**

Reach around manifold and other obstructions.

Item No.	Size	Length	Wt.
62 520	9/16" x 5/8"	7 1/4"	6 oz.



## A. Adjustable Wrenches Chrome Alloy

Adjusts to fit all nuts and bolts to the stated size. Precision ground jaws. Adjusting nut precision milled for positive hold.

Item No.	Size	Length	Wt.
68 604	1/2"	4"	2 oz.
68 606	3/4"	6"	4 oz.
68 608	5/16"	8"	7 oz.
68 610	1 1/8"	10"	13 oz.
68 612	1 5/16"	12"	1 lb. 3 oz.
68 615	1 3/4"	15"	2 lbs. 4 oz.
68 618	2 1/16"	18"	3 lbs. 2 oz.
68 624	2 1/2"	24"	9 lbs. 4 oz.

## B. Adjustable Wrenches Chrome Alloy

Imported product.

Item No.	Size	Length	Wt.
68 504	1/2"	4"	2 oz.
68 506	3/4"	6"	4 oz.
68 508	5/16"	8"	7 oz.
68 510	1 1/8"	10"	13 oz.
68 512	1 5/16"	12"	1 lb. 3 oz.

## C. Thin Wrenches

Long, thin wrenches for reaching into tight places.

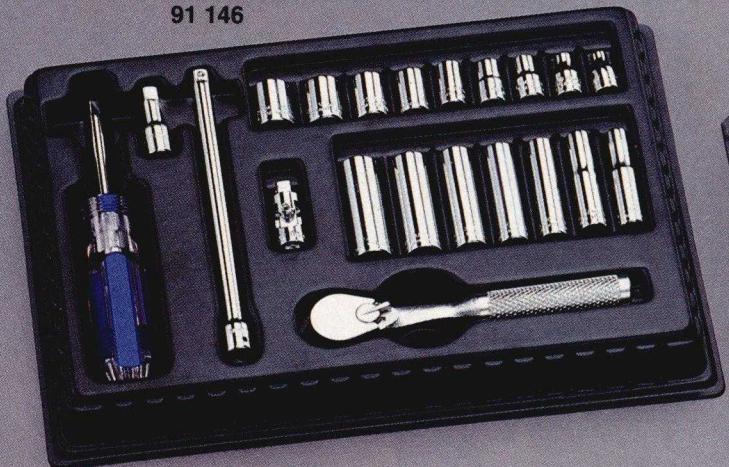
Item No.	Size	Length	Wt.
65 114	3/8" x 7/16"	9 7/8"	3 oz.
65 116	7/16" x 1/2"	9 7/8"	3 oz.
65 117	7/16" x 17/32"	9 7/8"	3 oz.
65 118	1/2" x 9/16"	9 7/8"	3 oz.
65 120	9/16" x 5/8"	9 7/8"	4 oz.
65 122	5/8" x 1 1/16"	9 7/8"	4 oz.
65 128	3/4" x 7/8"	9 7/8"	6 oz.

## D. Pipe Wrenches

Heavy duty wrenches with precision milled jaws to firmly grip pipes.

Item No.	Size	Length	Wt.
59 608	1"	8"	13 1/2 oz.
59 610	1 1/2"	10"	1 lb. 13 oz.
59 614	2"	14"	2 lbs. 2 oz.
59 618	2 1/2"	18"	4 lbs. 15 oz.

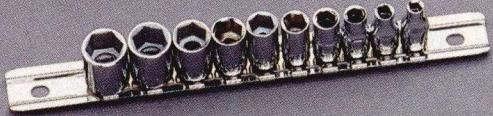
91 146



91 147



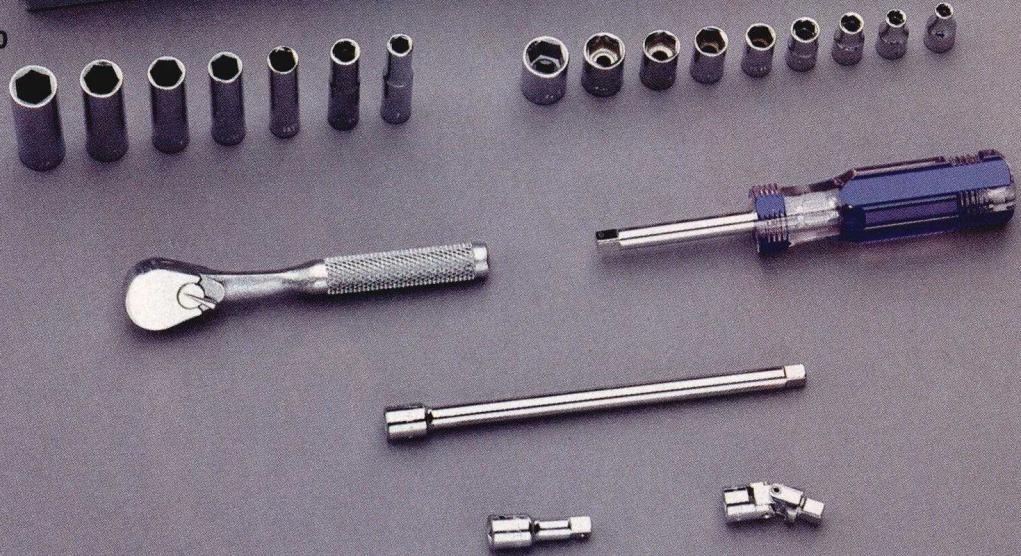
91 119C



91 108C



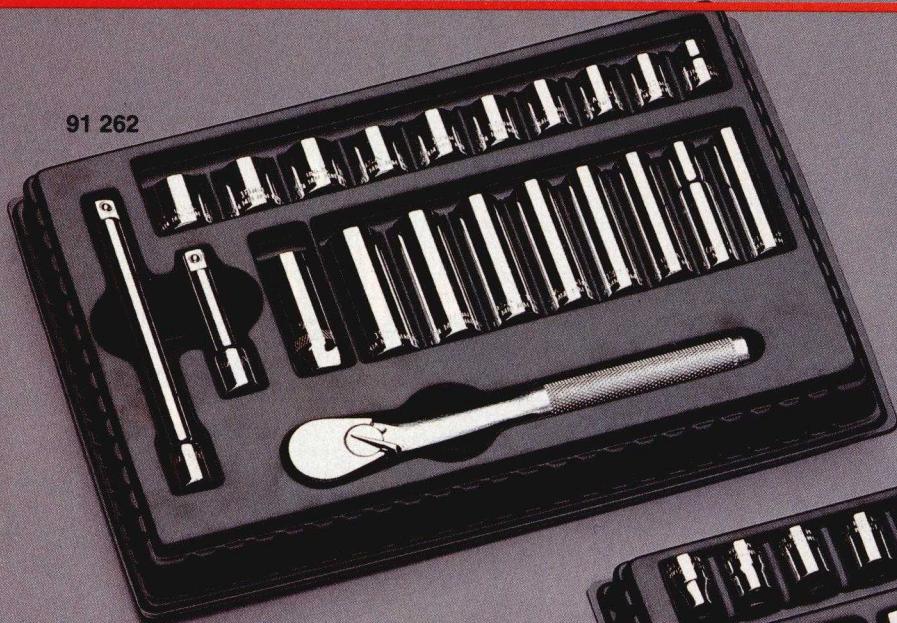
91 160



**1/4" Drive Metric Socket Sets**

<b>Item No.</b>	<b>Description</b>	<b>91 146 21 Piece</b>	<b>91 147 13 Piece</b>	<b>91 119C 10 Piece</b>	<b>91 108C 9 Piece</b>	<b>91 160 21 Piece</b>
<b>51 6104</b>	4mm 6 PT Socket	X	X	X		X
<b>51 6105</b>	5mm 6 PT Socket	X	X	X		X
<b>51 6106</b>	6mm 6 PT Socket	X	X	X		X
<b>51 6107</b>	7mm 6 PT Socket	X	X	X		X
<b>51 6108</b>	8mm 6 PT Socket	X	X	X		X
<b>51 6109</b>	9mm 6 PT Socket	X	X	X		X
<b>51 6110</b>	10mm 6 PT Socket	X	X	X		X
<b>51 6111</b>	11mm 6 PT Socket	X	X	X		X
<b>51 6112</b>	12mm 6 PT Socket	X	X	X		X
<b>51 6113</b>	13mm 6 PT Socket			X		
<b>51 6206</b>	6mm 6 PT Deep Socket	X			X	X
<b>51 6207</b>	7mm 6 PT Deep Socket	X			X	X
<b>51 6208</b>	8mm 6 PT Deep Socket	X			X	X
<b>51 6209</b>	9mm 6 PT Deep Socket	X			X	X
<b>51 6210</b>	10mm 6 PT Deep Socket	X			X	X
<b>51 6211</b>	11mm 6 PT Deep Socket	X			X	X
<b>51 6212</b>	12mm 6 PT Deep Socket	X			X	X
<b>51 6213</b>	13mm 6 PT Deep Socket				X	
<b>51 6214</b>	14mm 6 PT Deep Socket				X	
<b>71 1102</b>	Ratchet 5½"	X	X			X
<b>71 1106</b>	Quick Release Ratchet					
<b>71 1203</b>	3" Extension					
<b>71 1206</b>	6" Extension	X	X			X
<b>71 1207</b>	Spinner Handle					X
<b>71 1208</b>	Spinner Handle	X	X			
<b>71 1248</b>	1½" Extension	X	X			X
<b>71 1708</b>	Universal Joint	X				X
	Packaging	Tray	Tray	Rail	Rail	Metal Box

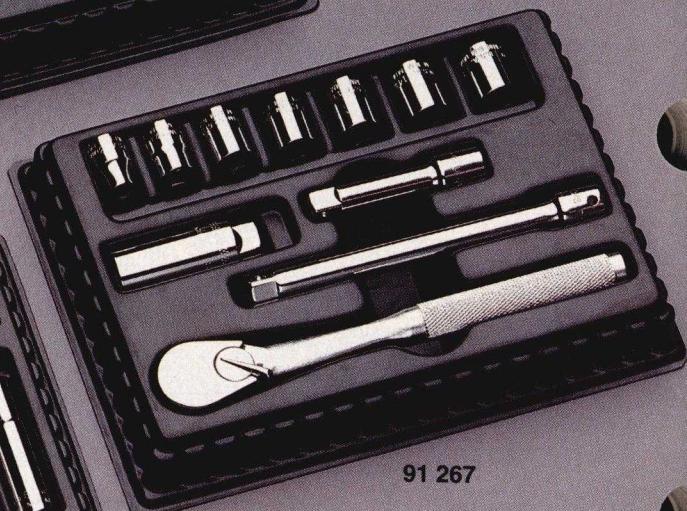
91 262



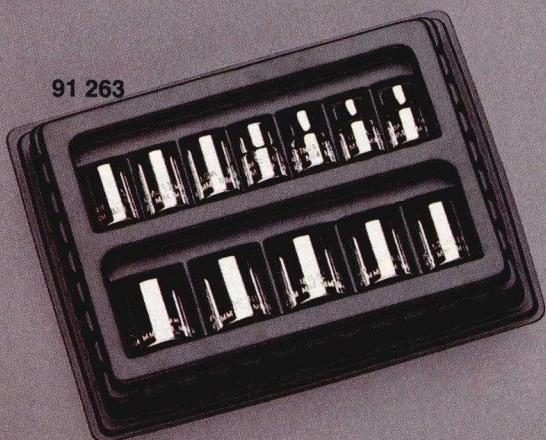
91 264



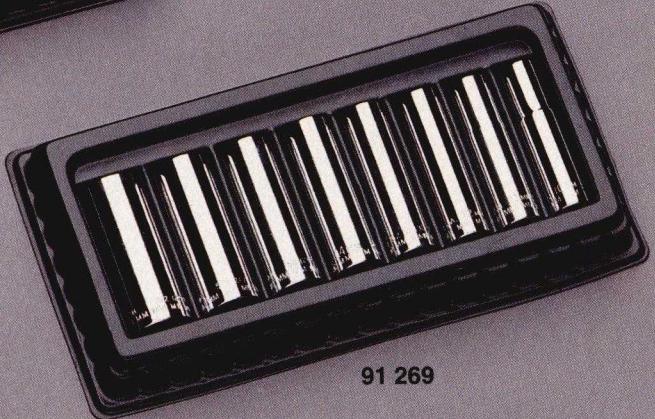
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91 263

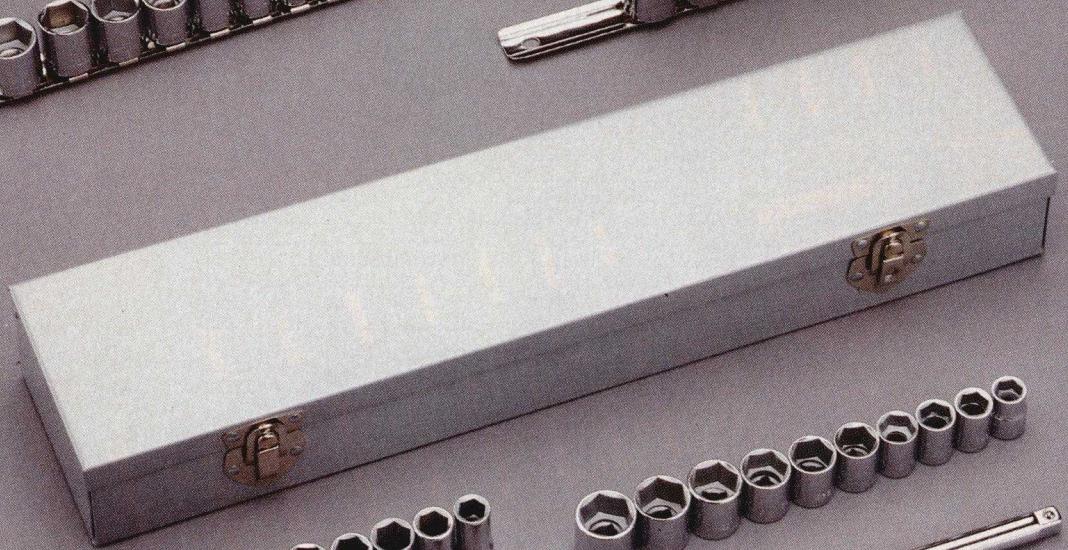
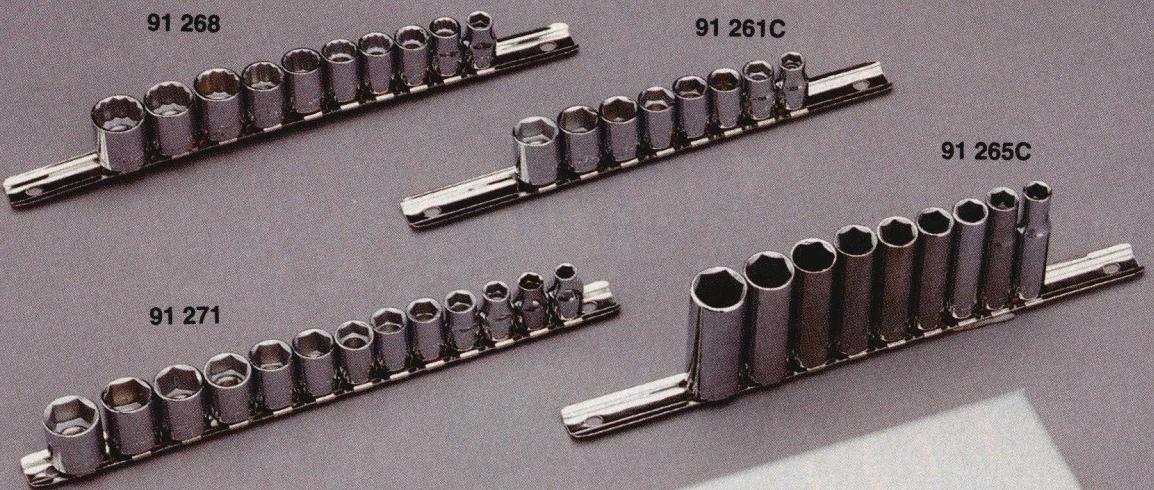


91 269



**3/8" Drive Metric Socket Sets**

<b>Item No.</b>	<b>Description</b>	<b>91 262 22 Piece</b>	<b>91 264 18 Piece</b>	<b>91 267 11 Piece</b>	<b>91 263 12 Piece</b>	<b>91 269 8 Piece</b>
<b>52 1820</b>	5/8" 6 PT Spark Plug Socket	X	X	X		
<b>52 6106</b>	6mm 6 PT Socket					
<b>52 6107</b>	7mm 6 PT Socket				X	
<b>52 6108</b>	8mm 6 PT Socket			X	X	
<b>52 6109</b>	9mm 6 PT Socket				X	
<b>52 6110</b>	10mm 6 PT Socket	X	X	X	X	
<b>52 6111</b>	11mm 6 PT Socket	X	X	X	X	
<b>52 6112</b>	12mm 6 PT Socket	X	X	X	X	
<b>52 6113</b>	13mm 6 PT Socket	X	X	X	X	
<b>52 6114</b>	14mm 6 PT Socket	X	X	X	X	
<b>52 6115</b>	15mm 6 PT Socket	X	X	X	X	
<b>52 6116</b>	16mm 6 PT Socket	X				
<b>52 6117</b>	17mm 6 PT Socket	X	X		X	
<b>52 6118</b>	18mm 6 PT Socket	X			X	
<b>52 6119</b>	19mm 6 PT Socket	X			X	
<b>52 6120</b>	20mm 6 PT Socket					
<b>52 6121</b>	21mm 6 PT Socket					
<b>52 6122</b>	22mm 6 PT Socket					
<b>52 6209</b>	9mm 6 PT Deep Socket					
<b>52 6210</b>	10mm 6 PT Deep Socket	X	X			X
<b>52 6211</b>	11mm 6 PT Deep Socket	X	X			X
<b>52 6212</b>	12mm 6 PT Deep Socket	X	X			X
<b>52 6213</b>	13mm 6 PT Deep Socket	X	X			X
<b>52 6214</b>	14mm 6 PT Deep Socket	X	X			X
<b>52 6215</b>	15mm 6 PT Deep Socket	X	X			X
<b>52 6216</b>	16mm 6 PT Deep Socket					
<b>52 6217</b>	17mm 6 PT Deep Socket	X	X			X
<b>52 6218</b>	18mm 6 PT Deep Socket					
<b>52 6219</b>	19mm 6 PT Deep Socket	X				X
<b>52 6109</b>	9mm 12 PT Socket					
<b>52 8110</b>	10mm 12 PT Socket					
<b>52 8111</b>	11mm 12 PT Socket					
<b>52 8112</b>	12mm 12 PT Socket					
<b>52 8113</b>	13mm 12 PT Socket					
<b>52 8114</b>	14mm 12 PT Socket					
<b>52 8115</b>	15mm 12 PT Socket					
<b>52 8116</b>	16mm 12 PT Socket					
<b>52 8117</b>	17mm 12 PT Socket					
<b>52 8118</b>	18mm 12 PT Socket					
<b>52 8119</b>	19mm 12 PT Socket					
<b>52 8121</b>	21mm 12 PT Socket					
<b>52 8209</b>	9mm 12 PT Deep Socket					
<b>52 8210</b>	10mm 12 PT Deep Socket					
<b>52 8211</b>	11mm 12 PT Deep Socket					
<b>52 8212</b>	12mm 12 PT Deep Socket					
<b>52 8213</b>	13mm 12 PT Deep Socket					
<b>52 8214</b>	14mm 12 PT Deep Socket					
<b>52 8215</b>	15mm 12 PT Deep Socket					
<b>52 8216</b>	16mm 12 PT Deep Socket					
<b>52 8217</b>	17mm 12 PT Deep Socket					
<b>52 8218</b>	18mm 12 PT Deep Socket					
<b>52 8219</b>	19mm 12 PT Deep Socket					
<b>72 1104</b>	Ratchet 7 3/4"	X	X	X		
<b>72 1109</b>	Quick Release Ratchet					
<b>72 1203</b>	3" Extension	X	X	X		
<b>72 1206</b>	6" Extension	X	X	X		
<b>72 1210</b>	10" Extension					
<b>72 1211</b>	11" Extension					
<b>72 1220</b>	20" Extension					
<b>72 1248</b>	1 1/2" Extension					
<b>72 1251</b>	1 1/2" Wobble Extension					
<b>72 1253</b>	3" Wobble Extension					
<b>72 1256</b>	6" Wobble Extension					
<b>72 1310</b>	Flex Handle					
<b>72 1712</b>	Universal Joint					
<b>72 1824</b>	Sliding Tee Handle					
<b>72 1923</b>	Speeder Handle					
<b>72 6110</b>	10mm Flex Socket					
<b>72 6111</b>	11mm Flex Socket					
<b>72 6112</b>	12mm Flex Socket					
<b>72 6113</b>	13mm Flex Socket					
<b>72 6114</b>	14mm Flex Socket					
<b>72 6115</b>	15mm Flex Socket					
<b>72 6116</b>	16mm Flex Socket					
<b>72 6117</b>	17mm Flex Socket					
<b>72 6118</b>	18mm Flex Socket					
<b>72 6119</b>	19mm Flex Socket					
	Packaging	Tray	Tray	Tray	Tray	Tray



## 3/8" Drive Metric Socket Sets Continued

Item No.	Description	91 268 10 Piece	91 261C 8 Piece	91 271 13 Piece	91 265C 9 Piece	91 225 22 Piece	91 295 7 Piece
52 1820	5/8" 6 PT Spark Plug Socket					X	
52 6106	6mm 6 PT Socket						
52 6107	7mm 6 PT Socket			X			
52 6108	8mm 6 PT Socket			X			
52 6109	9mm 6 PT Socket		X	X			
52 6110	10mm 6 PT Socket		X	X		X	
52 6111	11mm 6 PT Socket		X	X		X	
52 6112	12mm 6 PT Socket		X	X		X	
52 6113	13mm 6 PT Socket		X	X		X	
52 6114	14mm 6 PT Socket		X	X		X	
52 6115	15mm 6 PT Socket		X	X		X	
52 6116	16mm 6 PT Socket		X	X		X	
52 6117	17mm 6 PT Socket			X		X	
52 6118	18mm 6 PT Socket			X		X	
52 6119	19mm 6 PT Socket			X		X	
52 6120	20mm 6 PT Socket						
52 6121	21mm 6 PT Socket						
52 6122	22mm 6 PT Socket						
52 6209	9mm 6 PT Deep Socket				X		
52 6210	10mm 6 PT Deep Socket				X	X	
52 6211	11mm 6 PT Deep Socket				X	X	
52 6212	12mm 6 PT Deep Socket				X	X	
52 6213	13mm 6 PT Deep Socket				X	X	
52 6214	14mm 6 PT Deep Socket				X	X	
52 6215	15mm 6 PT Deep Socket				X	X	
52 6216	16mm 6 PT Deep Socket						
52 6217	17mm 6 PT Deep Socket				X	X	
52 6218	18mm 6 PT Deep Socket						
52 6219	19mm 6 PT Deep Socket				X	X	
52 8109	9mm 12 PT Socket	X					
52 8110	10mm 12 PT Socket	X					
52 8111	11mm 12 PT Socket	X					
52 8112	12mm 12 PT Socket	X					
52 8113	13mm 12 PT Socket	X					
52 8114	14mm 12 PT Socket	X					
52 8115	15mm 12 PT Socket	X					
52 8116	16mm 12 PT Socket						
52 8117	17mm 12 PT Socket	X					
52 8118	18mm 12 PT Socket	X					
52 8119	19mm 12 PT Socket	X					
52 8121	21mm 12 PT Socket						
52 8209	9mm 12 PT Deep Socket						
52 8210	10mm 12 PT Deep Socket						
52 8211	11mm 12 PT Deep Socket						
52 8212	12mm 12 PT Deep Socket						
52 8213	13mm 12 PT Deep Socket						
52 8214	14mm 12 PT Deep Socket						
52 8215	15mm 12 PT Deep Socket						
52 8216	16mm 12 PT Deep Socket						
52 8217	17mm 12 PT Deep Socket						
52 8218	18mm 12 PT Deep Socket						
52 8219	19mm 12 PT Deep Socket						
72 1104	Ratchet 7 3/4"					X	
72 1109	Quick Release Ratchet						
72 1203	3" Extension					X	
72 1206	6" Extension					X	
72 1210	10" Extension						
72 1211	11" Extension						
72 1220	20" Extension						
72 1248	1 1/2" Extension						
72 1251	1 1/2" Wobble Extension						
72 1253	3" Wobble Extension						
72 1256	6" Wobble Extension						
72 1310	Flex Handle						
72 1712	Universal Joint						
72 1824	Sliding Tee Handle						
72 1923	Speeder Handle						
72 6110	10mm Flex Socket					X	
72 6111	11mm Flex Socket					X	
72 6112	12mm Flex Socket					X	
72 6113	13mm Flex Socket					X	
72 6114	14mm Flex Socket					X	
72 6115	15mm Flex Socket					X	
72 6116	16mm Flex Socket						
72 6117	17mm Flex Socket					X	
72 6118	18mm Flex Socket						
72 6119	19mm Flex Socket						
	Packaging	Rail	Rail	Rail	Rail	Metal Box	Metal Box



**1/4" Drive Sockets**
**A. Metric 6 Point Standard Sockets**

Same high quality sockets in metric sizes.

Item No.	Size	Length	Wt.
51 6104	4mm	7/8"	1/2 OZ.
51 6105	5mm	7/8"	1/2 OZ.
51 6106	6mm	7/8"	1/2 OZ.
51 6107	7mm	7/8"	1/2 OZ.
51 6108	8mm	7/8"	1/2 OZ.
51 6109	9mm	7/8"	1/2 OZ.
51 6110	10mm	7/8"	1/2 OZ.
51 6111	11mm	7/8"	3/4 OZ.
51 6112	12mm	7/8"	3/4 OZ.
51 6113	13mm	7/8"	1 OZ.

**B. Metric 6 Point Deep Sockets**

Item No.	Size	Length	Wt.
51 6204	4mm	2"	3/4 OZ.
51 6205	5mm	2"	3/4 OZ.
51 6206	6mm	2"	3/4 OZ.
51 6207	7mm	2"	3/4 OZ.
51 6208	8mm	2"	3/4 OZ.
51 6209	9mm	2"	1 OZ.
51 6210	10mm	2"	1 OZ.
51 6211	11mm	2"	1 OZ.
51 6212	12mm	2"	2 OZ.
51 6213	13mm	2"	2 OZ.
51 6214	14mm	2"	2 OZ.

**3/8" Drive Sockets**
**C. Metric 6 Point Standard Sockets**

Same high quality sockets in metric sizes.

Item No.	Size	Length	Wt.
52 6106	6mm	15/16"	3/4 OZ.
52 6107	7mm	15/16"	3/4 OZ.
52 6108	8mm	15/16"	1 OZ.
52 6109	9mm	15/16"	1 OZ.
52 6110	10mm	15/16"	1 OZ.
52 6111	11mm	15/16"	1 OZ.
52 6112	12mm	15/16"	1 OZ.
52 6113	13mm	15/16"	1 OZ.
52 6114	14mm	15/16"	1 OZ.
52 6115	15mm	15/16"	1 OZ.
52 6116	16mm	15/16"	1 OZ.
52 6117	17mm	1"	1 OZ.
52 6118	18mm	1"	1 OZ.
52 6119	19mm	1"	2 OZ.
52 6120	20mm	1"	2 OZ.
52 6121	21mm	1"	2 OZ.
52 6122	22mm	1"	2 OZ.

**D. Metric 12 Point Standard Sockets**

Item No.	Size	Length	Wt.
52 8109	9mm	15/16"	1/2 OZ.
52 8110	10mm	15/16"	3/4 OZ.
52 8111	11mm	15/16"	3/4 OZ.
52 8112	12mm	15/16"	3/4 OZ.
52 8113	13mm	15/16"	1 OZ.
52 8114	14mm	15/16"	1 OZ.
52 8115	15mm	15/16"	1 OZ.
52 8116	16mm	15/16"	1 OZ.
52 8117	17mm	1"	1 OZ.
52 8118	18mm	1"	1 OZ.
52 8119	19mm	1"	2 OZ.
52 8121	21mm	1"	2 OZ.

**E. Metric 6 Point Deep Sockets**

Item No.	Size	Length	Wt.
52 6209	9mm	2 1/2"	2 OZ.
52 6210	10mm	2 1/2"	2 OZ.
52 6211	11mm	2 1/2"	2 OZ.
52 6212	12mm	2 1/2"	2 OZ.
52 6213	13mm	2 1/2"	2 OZ.
52 6214	14mm	2 1/2"	3 OZ.
52 6215	15mm	2 1/2"	3 OZ.
52 6216	16mm	2 1/2"	3 OZ.
52 6217	17mm	2 1/2"	3 OZ.
52 6218	18mm	2 1/2"	3 OZ.
52 6219	19mm	2 1/2"	4 OZ.

**F. Metric 12 Point Deep Sockets**

Item No.	Size	Length	Wt.
52 8209	9mm	2 1/2"	2 OZ.
52 8210	10mm	2 1/2"	2 OZ.
52 8211	11mm	2 1/2"	2 OZ.
52 8212	12mm	2 1/2"	2 OZ.
52 8213	13mm	2 1/2"	2 OZ.
52 8214	14mm	2 1/2"	2 OZ.
52 8215	15mm	2 1/2"	3 OZ.
52 8216	16mm	2 1/2"	3 OZ.
52 8217	17mm	2 1/2"	3 OZ.
52 8218	18mm	2 1/2"	3 OZ.
52 8219	19mm	2 1/2"	4 OZ.

**G. Metric 6 Point Flex Sockets**

Item No.	Size	Length	Wt.
72 6110	10mm	1 3/4"	2 OZ.
72 6111	11mm	1 3/4"	2 OZ.
72 6112	12mm	1 3/4"	2 OZ.
72 6113	13mm	1 13/16"	2 OZ.
72 6114	14mm	1 13/16"	2 OZ.
72 6115	15mm	1 13/16"	2 OZ.
72 6116	16mm	1 13/16"	2 OZ.
72 6117	17mm	1 13/16"	2 OZ.
72 6118	18mm	1 13/16"	2 OZ.
72 6119	19mm	1 13/16"	2 OZ.

91 330



91 331



91 332



91 324C



A

## 1/2" Drive Metric Socket Sets

Item No.	Description	91 330 15 Piece	91 331 12 Piece	91 332 19 Piece	91 324C 14 Piece
53 1820	5/8" Spark Plug Socket		X		
53 1826	13/16" Spark Plug Socket				
53 8109	9mm 12 PT Socket				
53 8110	10mm 12 PT Socket	X	X	X	
53 8111	11mm 12 PT Socket			X	
53 8112	12mm 12 PT Socket	X	X	X	
53 8113	13mm 12 PT Socket	X	X	X	
53 8114	14mm 12 PT Socket	X	X	X	
53 8115	15mm 12 PT Socket		X	X	X
53 8116	16mm 12 PT Socket		X	X	
53 8117	17mm 12 PT Socket	X	X	X	X
53 8118	18mm 12 PT Socket	X	X	X	X
53 8119	19mm 12 PT Socket	X	X	X	X
53 8120	20mm 12 PT Socket			X	
53 8121	21mm 12 PT Socket			X	X
53 8122	22mm 12 PT Socket	X		X	X
53 8123	23mm 12 PT Socket	X		X	
53 8124	24mm 12 PT Socket	X		X	X
53 8125	25mm 12 PT Socket	X		X	
53 8126	26mm 12 PT Socket			X	
53 8127	27mm 12 PT Socket	X		X	X
53 8128	28mm 12 PT Socket	X		X	
53 8129	29mm 12 PT Socket				
53 8130	30mm 12 PT Socket				X
53 8131	31mm 12 PT Socket				
53 8132	32mm 12 PT Socket				
53 8136	36mm 12 PT Socket				X
53 8214	14mm 12 PT Deep Socket				
53 8217	17mm 12 PT Deep Socket				
53 8219	19mm 12 PT Deep Socket				
53 8221	21mm 12 PT Deep Socket				
53 8222	22mm 12 PT Deep Socket				
53 8227	27mm 12 PT Deep Socket				
53 9109	9mm 6 PT Socket				
53 9110	10mm 6 PT Socket				X
53 9111	11mm 6 PT Socket				
53 9112	12mm 6 PT Socket				X
53 9113	13mm 6 PT Socket				X
53 9114	14mm 6 PT Socket				X
53 9115	15mm 6 PT Socket				
53 9117	17mm 6 PT Socket				
53 9119	19mm 6 PT Socket				
53 9122	22mm 6 PT Socket				
73 1112	Ratchet 10 1/2"	X	X		
73 1202	2" Extension				
73 1203	3" Extension				
73 1206	6" Extension	X	X		
73 1210	10" Extension				
73 1220	20" Extension				
73 1251	1 1/2" Wobble Extension				
73 1309	9" Flex Handle				
73 1315	15" Flex Handle				
73 1318	18" Flex Handle				
	Packaging	Tray	Tray	Metal Box	Rail

## A. 91 303C 6 Piece Metric Impact Socket Set

## Contents:

53 6111	11mm	53 6115	15mm
53 6113	13mm	53 6117	17mm
53 6114	14mm	53 6119	19mm

Caution: Always wear safety goggles when using impact tools. Use with power tools only.



**A. Metric 6 Point Standard Sockets**

Item No.	Size	Length	Wt.
53 9109	9mm	1½"	2 oz.
53 9110	10mm	1½"	2 oz.
53 9111	11mm	1½"	2 oz.
53 9112	12mm	1½"	2 oz.
53 9113	13mm	1½"	2 oz.
53 9114	14mm	1½"	2 oz.
53 9115	15mm	1½"	2 oz.
53 9117	17mm	1½"	2 oz.
53 9119	19mm	1½"	2 oz.
53 9122	22mm	1½"	2 oz.

**B. Metric 12 Point Standard Sockets**

Item No.	Size	Length	Wt.
53 8109	9mm	1½"	2 oz.
53 8110	10mm	1½"	2 oz.
53 8111	11mm	1½"	2 oz.
53 8112	12mm	1½"	2 oz.
53 8113	13mm	1½"	2 oz.
53 8114	14mm	1½"	2 oz.
53 8115	15mm	1½"	2 oz.
53 8116	16mm	1½"	2 oz.
53 8117	17mm	1½"	2 oz.
53 8118	18mm	1½"	2 oz.
53 8119	19mm	1½"	2 oz.
53 8120	20mm	1½"	3 oz.
53 8121	21mm	1½"	3 oz.
53 8122	22mm	1½"	3 oz.
53 8123	23mm	1½"	4 oz.
53 8124	24mm	1½"	4 oz.
53 8125	25mm	1½"	4 oz.
53 8126	26mm	1⅝"	5 oz.
53 8127	27mm	1⅝"	5 oz.
53 8128	28mm	1⅝"	6 oz.
53 8129	29mm	1⅛"	6 oz.
53 8130	30mm	1⅛"	6 oz.
53 8131	31mm	1⅛"	6 oz.
53 8132	32mm	1⅓"	8 oz.
53 8136	36mm	1⅓"	11 oz.

**C. Metric 12 Point Deep Sockets**

Item No.	Size	Length	Wt.
53 8214	14mm	3¼"	4 oz.
53 8217	17mm	3¼"	4 oz.
53 8219	19mm	3¼"	4 oz.
53 8221	21mm	3¼"	4 oz.
53 8222	22mm	3¼"	4 oz.
53 8227	27mm	3¼"	6 oz.

**D. Metric 6 Point Standard Impact Sockets**

Designed for use with power impact tools.

Item No.	Size	Length	Wt.
53 6111	11mm	1½"	3 oz.
53 6112	12mm	1½"	3 oz.
53 6113	13mm	1½"	3 oz.
53 6114	14mm	1½"	3 oz.
53 6115	15mm	1½"	3 oz.
53 6117	17mm	1½"	4 oz.
53 6119	19mm	1½"	4 oz.
53 6120	20mm	1½"	4 oz.
53 6121	21mm	1½"	4 oz.
53 6122	22mm	1½"	4 oz.
53 6124	24mm	1½"	5 oz.
53 6127	27mm	1½"	8 oz.

**Caution:** Always wear safety goggles when using impact tools.  
Only use impact sockets with power tools.

**E. Metric 6 Point Deep Impact Sockets**

For use on front wheel drive spindle nuts.

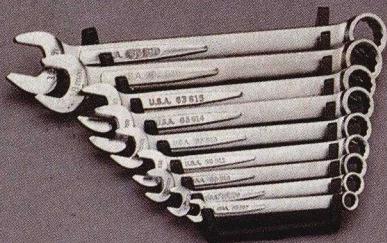
Item No.	Size	Length	Wt.
53 6418	18mm	3¼"	6 oz.
53 6430	30mm	3½"	13 oz.
53 6432	32mm	3½"	15 oz.
53 6436	36mm	3½"	17 oz.

**Caution:** Always wear safety goggles when using impact tools.  
Only use impact sockets with power tools.

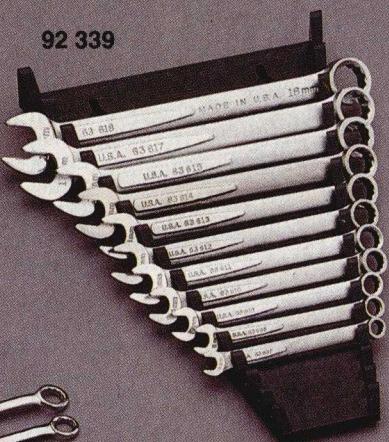
92 340



92 342



92 339



92 338



92 357



92 382



92 383



92 384



**Metric Combination Wrench Sets**

<b>Item No.</b>	<b>Size</b>	<b>92 340 15 Piece</b>	<b>92 339 11 Piece</b>	<b>92 342 9 Piece</b>	<b>92 338 7 Piece</b>	<b>92 344 5 Piece</b>	<b>92 357 10 Piece</b>
63 607	7mm 12 PT	X	X	X	X	X	
63 608	8mm 12 PT	X	X				
63 609	9mm 12 PT	X	X	X	X	X	
63 610	10mm 12 PT	X	X	X	X	X	
63 611	11mm 12 PT	X	X	X	X	X	
63 612	12mm 12 PT	X	X				
63 613	13mm 12 PT	X	X	X	X	X	
63 614	14mm 12 PT	X	X	X	X		
63 615	15mm 12 PT	X	X	X	X		
63 616	16mm 12 PT	X					
63 617	17mm 12 PT	X	X				
63 618	18mm 12 PT	X	X	X			
63 619	19mm 12 PT	X		X			
63 620	20mm 12 PT						
63 621	21mm 12 PT	X					
63 622	22mm 12 PT	X					
63 623	23mm 12 PT						
63 624	24mm 12 PT						
63 625	25mm 12 PT						
63 626	26mm 12 PT						
63 627	27mm 12 PT						
63 628	28mm 12 PT						
63 629	29mm 12 PT						
63 630	30mm 12 PT						
63 632	32mm 12 PT						
63 906	6mm 6 PT						X
63 907	7mm 6 PT						X
63 909	9mm 6 PT						X
66 408	4.5 x 4mm Midget						X
66 409	4 x 4.5mm Midget						X
66 411	5 x 5.5mm Midget						X
66 412	5 x 6mm Midget						X
66 413	5.5 x 6mm Midget						X
66 414	6 x 7mm Midget						X
66 416	7 x 8mm Midget						X
66 418	8 x 9mm Midget						X
66 420	9 x 10mm Midget						X
66 422	10 x 11mm Midget						X
	Packaging	Wrench	Wrench	Wrench	Wrench	Pouch	Pouch
		Rack	Rack	Rack	Rack		

**Metric Fully Polished Combination Wrench Sets**

<b>Item No.</b>	<b>Size</b>	<b>92 383 14 Piece</b>	<b>92 384 11 Piece</b>	<b>92 382 6 Piece</b>
63 707	7mm 12 PT	X	X	
63 708	8mm 12 PT	X	X	X
63 709	9mm 12 PT	X	X	X
63 710	10mm 12 PT	X	X	X
63 711	11mm 12 PT	X	X	
63 712	12mm 12 PT	X	X	X
63 713	13mm 12 PT	X	X	X
63 714	14mm 12 PT	X	X	X
63 715	15mm 12 PT	X	X	
63 716	16mm 12 PT	X	X	
63 717	17mm 12 PT	X	X	
63 718	18mm 12 PT	X		
63 719	19mm 12 PT	X		
63 720	20mm 12 PT			
63 721	21mm 12 PT	X		
	Packaging	Wrench	Wrench	Wrench
		Rack	Rack	Rack



**A. 92 524C 10 Piece 3/8" Drive Metric Crowfoot Wrench Set**
**Contents:**

54 510	10mm
54 511	11mm
54 512	12mm
54 513	13mm
54 514	14mm
54 515	15mm
54 516	16mm
54 517	17mm
54 518	18mm
54 519	19mm
	Socket Rail

**B. 12 Point Metric Fully Polished Combination Wrenches**

Item No.	Size	Length	Wt.
63 707	7mm	4½"	¾ oz.
63 708	8mm	5"	1 oz.
63 709	9mm	5½"	1½ oz.
63 710	10mm	6"	1½ oz.
63 711	11mm	6½"	2 oz.
63 712	12mm	7"	2½ oz.
63 713	13mm	7½"	3 oz.
63 714	14mm	8"	3¾ oz.
63 715	15mm	8½"	4¼ oz.
63 716	16mm	8½"	5 oz.
63 717	17mm	9½"	5¾ oz.
63 718	18mm	10"	7¼ oz.
63 719	18mm	10½"	7¾ oz.
63 720	20mm	11"	9½ oz.
63 721	21mm	11½"	10¼ oz.

**C. 12 Point Metric Combination Wrenches**

Item No.	Size	Length	Wt.
63 607	7mm	4¼"	1 oz.
63 608	8mm	4¾"	1 oz.
63 609	9mm	4¾"	1 oz.
63 610	10mm	5½"	2 oz.
63 611	11mm	5¾"	2 oz.
63 612	12mm	6¼"	2 oz.
63 613	13mm	6½"	3 oz.
63 614	14mm	7⅓"	4 oz.
63 615	15mm	8"	5 oz.
63 616	16mm	8"	5 oz.
63 617	17mm	8¾"	6 oz.
63 618	18mm	8¾"	7 oz.
63 619	18mm	9¾"	8 oz.
63 620	20mm	10¼"	8 oz.
63 621	21mm	10½"	10 oz.
63 622	22mm	11½"	10 oz.
63 623	23mm	12¾"	10 oz.
63 624	24mm	12¾"	10 oz.
63 625	25mm	13⅓"	12 oz.
63 626	26mm	13⅓"	12 oz.
63 627	27mm	14"	14 oz.
63 628	28mm	14"	14 oz.
63 629	29mm	14½"	15 oz.
63 630	30mm	15"	1 lb.
63 632	32mm	15½"	1 lb. 3 oz.

**D. 6 and 12 Point Metric Midget Combination Wrenches**

Item No.	Size	Length	Wt.
66 408	4.5 x 4mm	2¾"	½ oz.
66 409	4 x 4.5mm	2¾"	½ oz.
66 411	5mm x 5.5mm	3"	½ oz.
66 412	5mm x 6mm	3⅓"	½ oz.
66 413	5.5mm x 6mm	3⅓"	½ oz.
66 414	6mm x 7mm	3⅓"	½ oz.
66 416	7mm x 8mm	3½"	½ oz.
66 418	8mm x 9mm	3½"	½ oz.
66 420	9mm x 10mm	3⅓"	½ oz.
66 422	10mm x 11mm	3⅓"	½ oz.

**E. 6 Point Metric Combination Wrenches**

Item No.	Size	Length	Wt.
63 906	6mm	4"	1 oz.
63 907	7mm	4¼"	1 oz.
63 909	9mm	4¾"	1 oz.

**F. Metric Crowfoot Wrenches**

Same high quality crowfoot wrenches in metric sizes.

Item No.	Size	Length	Wt.
64 510	10mm	1¾"	1 oz.
64 511	11mm	1¼"	1 oz.
64 512	12mm	1½"	1 oz.
64 513	13mm	1¾"	1½ oz.
64 514	14mm	1½"	1½ oz.
64 515	15mm	1¾"	1½ oz.
64 516	16mm	1¾"	1½ oz.
64 517	17mm	11½"	2 oz.
64 518	18mm	11½"	2 oz.
64 519	19mm	1¾"	2½ oz.
64 521	21mm	1¾"	2½ oz.
64 522	22mm	1¾"	3 oz.



**Metric Open End Wrench Sets**

Item No.	Size	92 153 6 Piece	92 157 7 Piece
61 608	6mm x 8mm	X	
61 609	7mm x 9mm	X	
61 611	10mm x 11mm	X	
61 614	12mm x 14mm	X	
61 615	13mm x 15mm	X	
61 617	16mm x 17mm		
61 619	17mm x 19mm	X	
61 619A	18mm x 19mm		
61 622	20mm x 22mm		
61 623	21mm x 23mm		
66 305	5.5mm Midget		X
66 306	6mm Midget		X
66 307	7mm Midget		X
66 308	8mm Midget		X
66 309	9mm Midget		X
66 310	10mm Midget		X
66 311	11mm Midget		X
	Packaging	Pouch	Pouch

**A. Metric Open End Wrenches**

Item No.	Size	Length	Wt.
61 608	6mm x 8mm	4½"	1 oz.
61 609	7mm x 9mm	5"	1 oz.
61 611	10mm x 11mm	5¼"	2 oz.
61 614	12mm x 14mm	6⅛"	3 oz.
61 615	13mm x 15mm	6¾"	4 oz.
61 617	16mm x 17mm	7⅓/16"	5 oz.
61 619	17mm x 19mm	8¾"	6 oz.
61 619A	18mm x 19mm	8⅞"	7 oz.
61 622	20mm x 22mm	9½"	8 oz.
61 623	21mm x 23mm	10⅕/16"	9 oz.

**B. Metric Midget Open End Wrenches**

15° offset angle one end, 80° angle other end.

Item No.	Size	Length	Wt.
66 305	5.5mm	3⅛"	½ oz.
66 306	6mm	3¼"	½ oz.
66 307	7mm	3½"	½ oz.
66 308	8mm	3⁵/₈"	½ oz.
66 309	9mm	3¾"	½ oz.
66 310	10mm	3⁷/₈"	½ oz.
66 311	11mm	4⅛"	½ oz.

**C. 92 535 3 Piece Metric Flare Nut Wrench Set**
**Contents:**

60 613	11mm x 12mm
60 614	13mm x 14mm
60 617	15mm x 17mm

Vinyl Pouch

**D. Metric Flare Nut Wrenches**

Same specially designed wrenches in metric sizes.

Item No.	Size	Length	Wt.
60 611	9mm x 11mm	6"	2 oz.
60 612	10mm x 12mm	6⅔"	2 oz.
60 613	11mm x 12mm	6½"	2 oz.
60 614	13mm x 14mm	7¾"	3 oz.
60 617	15mm x 17mm	7⁵/₈"	5 oz.
60 618	16mm x 18mm	7¾"	5½ oz.
60 621	19mm x 21mm	8"	6 oz.

**KD 45 708  
Combination  
Slip-Joint  
Plier**



- Drop-forged steel for maximum strength and durability
- Heat-treated hardened jaws for toughness and years of dependable service
- Chrome plated and polished surfaces resist corrosion and abrasion
- Vinyl-coated handles provide a comfortable, cushioned grip
- 2-position slip-joint design for use on large and small fasteners
- Tough utility pliers for all purpose use
- Precision-milled jaws ensure a strong, non-slip grip
- Precision cutting edges cut cleanly and retain their sharpness

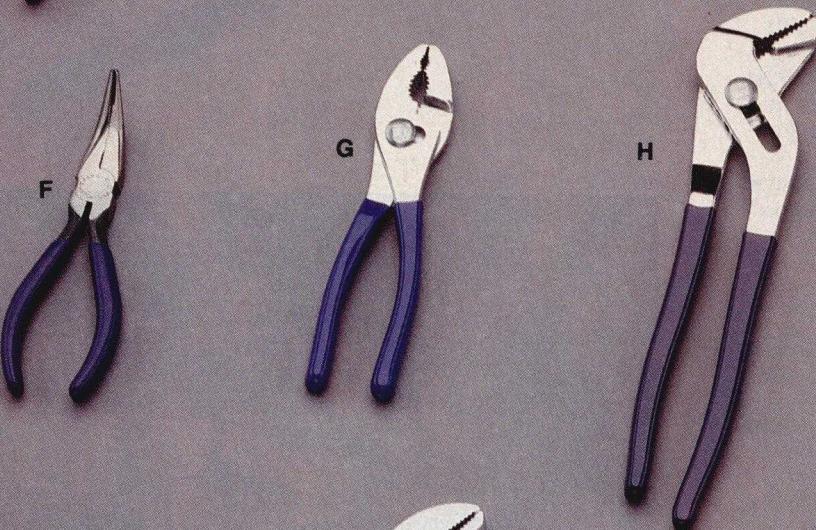
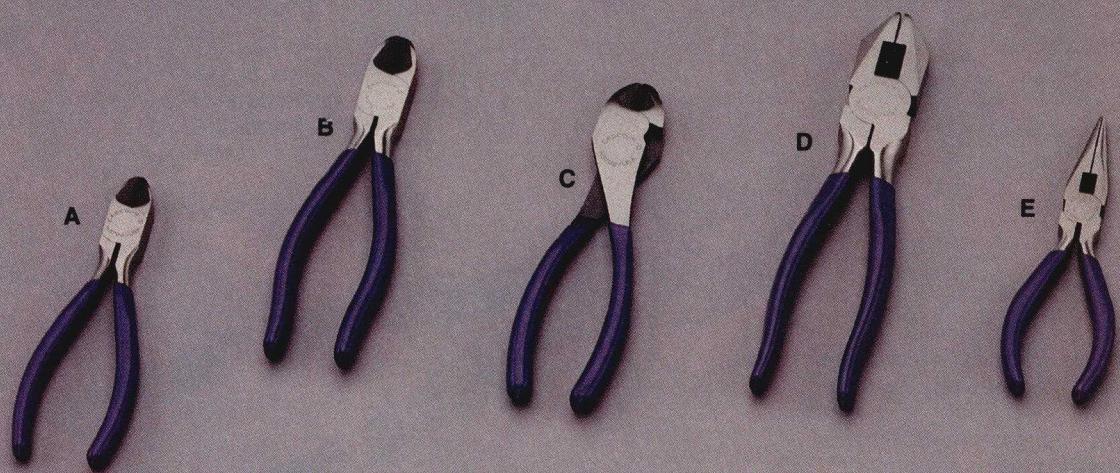
**KD 45 703  
Lineman's  
Plier**



**K-D Tools®**

**PLIERS**





### A. Diagonal Cutting Pliers - Cushion Grip

Strong, solid jaws ideal for cutting wire or light metal. Vinyl coated cushion grip handles.

Item No.	Length	Wt.
45 700	6"	6 oz.

### B. Large Diagonal Cutting Pliers - Cushion Grip

Long handles provide extra leverage. Solid jaws cut wire and metal. Vinyl coated cushion grip handles.

Item No.	Length	Wt.
45 701	7"	12 oz.

### C. Heavy Duty Diagonal Cutting Pliers - Cushion Grip

Large cutting angle and spoon shaped jaws provide added cutting power.

Item No.	Length	Wt.
45 702	7"	8 oz.

### D. Lineman's Pliers - Cushion Grip

Side cutting pliers with strong milled jaws for gripping work. Cushion grip coated handles.

Item No.	Length	Wt.
45 703	8"	13 oz.

### E. Long Nose Pliers - Cushion Grip

Reaches hard-to-get-at locations. Cuts and bends wire in loops.

Item No.	Length	Wt.
45 704	6½"	5 oz.
45 705	8"	7 oz.

### F. Curved Needle Nose Pliers - Cushion Grip

Reach into hard-to-get-at locations. Bend and twist wire.

Item No.	Length	Wt.
45 706	6"	5 oz.

### G. Combination Slip Joint Pliers - Cushion Grip

Two position slip joint fits large and small jobs. Precision milled, chrome plated jaws, cushion grip handles.

Item No.	Length	Wt.
45 707	6"	5 oz.
45 708	8"	8 oz.
45 709	10"	13½ oz.

### H. Rib Lock Pliers - Cushion Grip

Rib construction takes pressure off pin. Sure grip even with force on only one handle. Chrome plated milled jaws with cushion grip handles.

Item No.	Length	Wt.
45 711	10"	12 oz.
45 712	12"	1 lb.
45 713	14"	1 lb. 5 oz.

### I. Miniature Slip Joint Pliers - Cushion Grip

Small, strong pliers firmly grip small nuts. Milled jaws lock in three positions up to ½" wide. Chrome plated. Cushion grip handles.

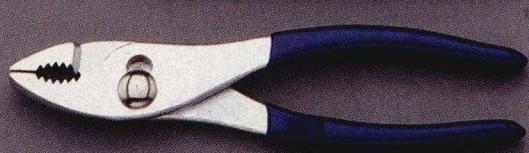
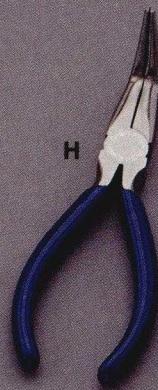
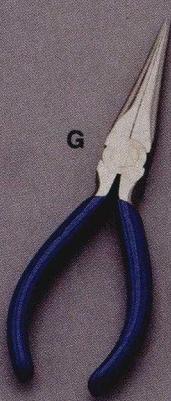
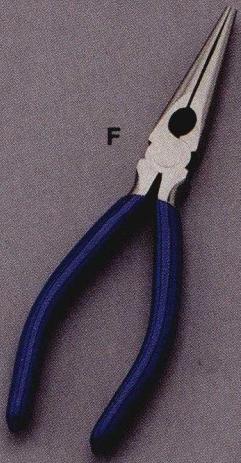
Item No.	Length	Wt.
45 710	5"	8 oz.

### J. 80 016 6 Piece Handyman Tool Kit

Ideal for home, car or boat repairs. Essential for any job around the home. Packed in a heavy vinyl tool roll.

#### Contents:

40 501	#1 x 3" Phillips Screwdriver
40 502	#2 x 4" Phillips Screwdriver
40 511	¾" x 3" Slotted Screwdriver
40 513	¼" x 4" Slotted Screwdriver
45 505	10" Groove Lock Pliers
61 114	¾" x 7/16" Open End Wrench
61 118	½" x 9/16" Open End Wrench
61 120	¾" x 5/8" Open End Wrench
61 124	½" x ¾" Open End Wrench
68 506	6" Adjustable Wrench
51 1107	7/32" 6 PT Socket, ¼" Drive
51 1108	¼" 6 PT Socket, ¼" Drive
51 1110	5/16" 6 PT Socket, ¼" Drive
51 1112	¾" 6 PT Socket, ¼" Drive
51 1116	½" 6 PT Socket, ¼" Drive
71 1208	Spinner Handle, ¼" Drive



### A. Diagonal Cutting Pliers - Cushion Grip

Strong, solid jaws ideal for cutting wire or light metal. Vinyl coated cushion grip handles.

Imported product.

Item No.	Length	Wt.
45 600	5"	4 oz.
45 601	6"	6 oz.

### B. Large Diagonal Cutting Pliers - Cushion Grip

Long handles provide extra leverage. Solid jaws cut wire and metal. Vinyl coated cushion grip handles.

Imported product.

Item No.	Length	Wt.
45 608	7"	12 oz.

### C. Heavy Duty Diagonal Cutting Pliers - Cushion Grip

Large cutting angle and spoon shaped jaws provide added cutting power.

Imported product.

Item No.	Length	Wt.
45 602	7"	8 oz.

### D. End Nipper Pliers - Cushion Grip

Strong, solid jaws ideal for flush cutting wire and metal. Can be used to grip and pull tacks by rocking jaws. Vinyl coated cushion grip handles.

Imported product.

Item No.	Length	Wt.
45 612	6"	8 oz.

### E. Lineman's Pliers - Cushion Grip

Side cutting pliers with strong milled jaws for gripping work. Cushion grip coated handles.

Imported product.

Item No.	Length	Wt.
45 603	7"	10 oz.
45 604	8"	13 oz.
45 609	6"	8 oz.
45 610	9½"	15 oz.

### F. Long Nose Pliers - Cushion Grip

Reaches hard to get at locations. Cuts and bends wire in loops. Imported product.

Item No.	Length	Wt.
45 605	5½"	4 oz.
45 606	6½"	5 oz.
45 607	8"	7 oz.

### G. Needle Nose Pliers - Cushion Grip

Imported product.

Item No.	Length	Wt.
45 614	6"	5 oz.

### H. Curved Needle Nose Pliers - Cushion Grip

Reach into hard to get at locations. Bend and twist wire. Imported product.

Item No.	Length	Wt.
45 611	6½"	5 ½ oz.

### I. Duckbill Pliers - Cushion Grip

Extra long reach. Square jaws bend wire at 90°. Imported product.

Item No.	Length	Wt.
45 613	8"	7 oz.

### J. Combination Slip Joint Pliers - Cushion Grip

Two position slip joint fits large and small jobs. Precision milled, chrome plated jaws, cushion grip handles.

Imported product.

Item No.	Length	Wt.
45 501	6"	5 oz.
45 503	8"	8 oz.
45 504	10"	13½ oz.

### K. Combination Slip Joint Pliers

Two position slip joint fits large and small jobs. Precision milled, chrome plated jaws firmly grip work.

Imported product.

Item No.	Length	Wt.
45 500	6"	5 oz.
45 502	8"	8 oz.

### L. Hose Clamp Pliers - Cushion Grip

Specially designed jaws allow installation and removal of wire spring clamps. Adjustable jaws enable gripping of full range of clamp sizes.

Imported product.

Item No.	Length	Wt.
45 508	8"	8 oz.

### M. Groove Lock Pliers - Cushion Grip

Sure grip even with force on only one handle. Chrome plated milled jaws. Cushion grip.

Imported product.

Item No.	Length	Wt.
45 505	10"	12 oz.
45 506	12"	1 lb. 5 oz.
45 510	5"	8 oz.
45 513	8"	10 oz.
45 520	16"	1 lb. 5 oz.

### N. Water Pump Pliers - Cushion Grip

Chrome plated, three position slip joint pliers firmly grip bolts and clamps. Vinyl coated cushion grip handles.

Imported product.

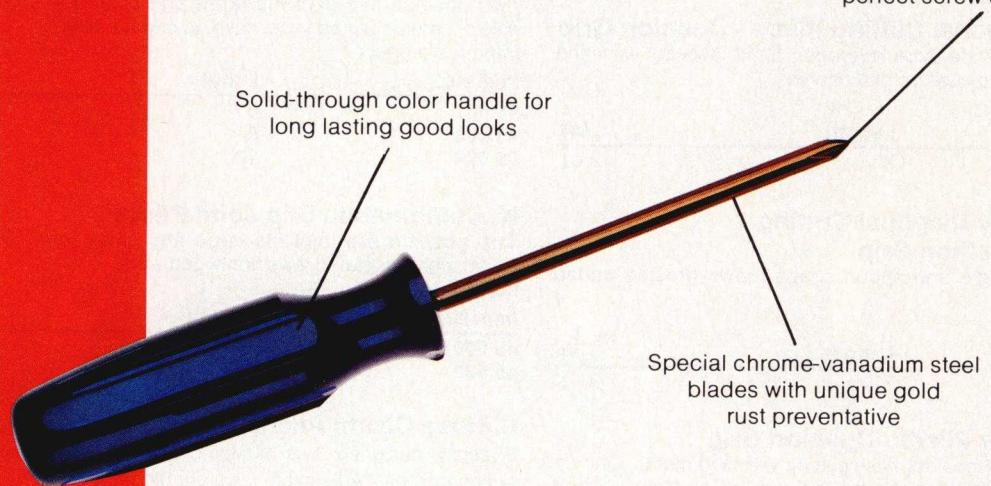
Item No.	Length	Wt.
45 507	10"	11 oz.

### O. 45 900 4 Piece Pliers and Adjustable Set

Imported product.

#### Contents:

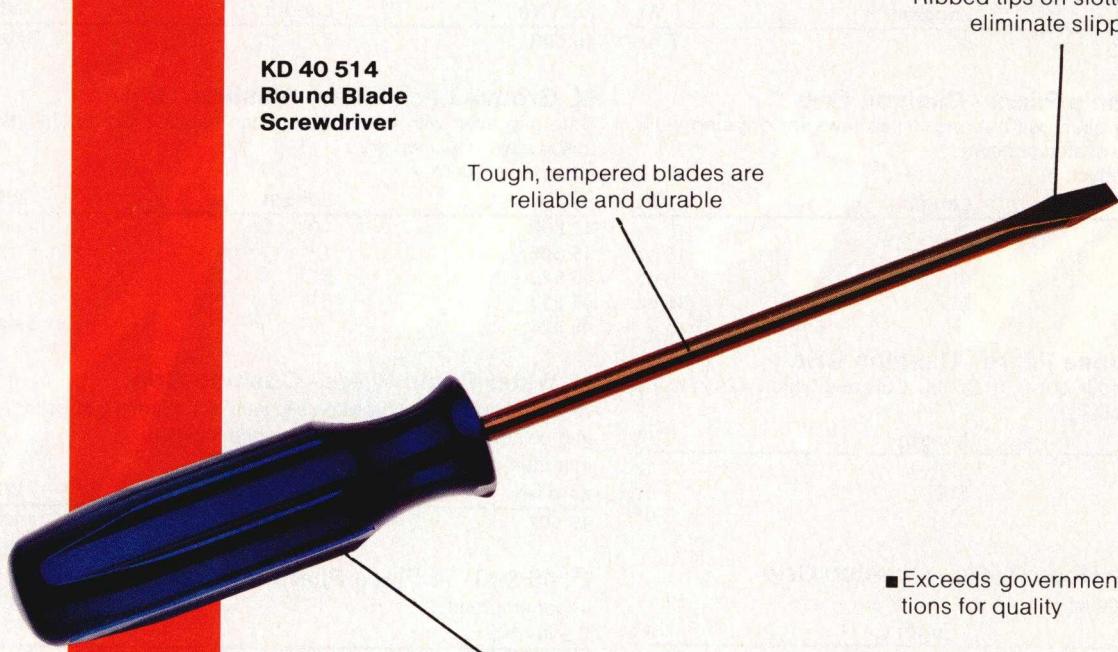
45 505	10" Groove Lock Pliers
45 501	6" Slip Joint Pliers
45 600	5" Diagonal Cutting Pliers
45 508	8" Adjustable Wrench

**KD 40 502  
Phillips  
Screwdriver**

Solid-through color handle for long lasting good looks

Accurate pointed tips allow for perfect screw engagement

Special chrome-vanadium steel blades with unique gold rust preventative

**KD 40 514  
Round Blade  
Screwdriver**

Tough, tempered blades are reliable and durable

Ribbed tips on slotted drivers eliminate slippage

Large, comfortable handles are durable and resistant to solvents, heat and cold

■ Exceeds government specifications for quality

**SCREWDRIVERS**





**A. Round Blade Screwdrivers**

Item No.	Size	Length	Wt.
40 510	3/8" x 10"	15"	9 1/2 oz
40 511	3/16" x 3"	7 3/4"	3 1/4 oz
40 512	3/16" x 6"	9 3/4"	3 1/4 oz
40 513	1/4" x 4"	8 1/4"	3 1/4 oz
40 514	1/4" x 6"	10 1/4"	6 1/2 oz
40 515	5/16" x 6"	10 3/4"	6 1/2 oz
40 516	3/8" x 8"	13"	8 1/2 oz

**B. Square Blade Screwdrivers**

Item No.	Size	Length	Wt.
40 521	1/4" x 4"	8 1/4"	5 oz.
40 522	1/4" x 6"	10 1/4"	5 1/2 oz.
40 525	5/16" x 6"	10 3/4"	7 oz.
40 526	3/8" x 8"	13"	10 3/4 oz.
40 528	3/8" x 12"	17"	12 1/4 oz.
40 529	3/8" x 16"	25"	1 lb. 2 1/2 oz.

**C. Phillips Screwdrivers**

Item No.	Size	Length	Wt.
40 500	#0 x 2 1/2" w/Clip	5 1/4"	2 oz.
40 501	#1 x 3"	6 3/4"	3 1/2 oz.
40 502	#2 x 4"	7 3/4"	4 3/4 oz.
40 503	#3 x 6"	10 1/4"	6 1/2 oz.
40 505	#1 x 6"	9 3/4"	3 1/2 oz.
40 507	#2 x 6"	11 3/4"	6 3/4 oz.
40 508	#2 x 18"	23 3/4"	8 oz.

**D. Cabinet Tip Screwdrivers**

Item No.	Size	Length	Wt.
40 004	1/8" x 3 1/2"	6 3/4"	1 3/4 oz.
40 006	1/8" x 6"	8 3/4"	2 oz.
40 020	3/16" x 10"	13 3/4"	4 oz.

**E. Pocket Size Screwdriver**

Item No.	Description	Length	Wt.
40 533	1/8" x 2 1/2" Round Blade	4 3/4"	2 oz.

**F. Stubby Screwdriver**

Item No.	Size	Length	Wt.
40 531	1/4" x 1 1/2"	3 1/2"	4 oz.

**G. Stubby Phillips Screwdrivers**

Item No.	Size	Length	Wt.
40 504	#1 x 1 1/2"	3 1/2"	2 oz
40 532	#2 x 1 1/2"	3 1/2"	2 oz

**H. Torx® Screwdrivers**

Item No.	Size	Length	Wt.
41 3107C	T-7	6"	1 oz.
41 3108C	T-8	6"	1 oz.
41 3109C	T-9	6"	1 oz.
41 3110C	T-10	6"	1 oz.
41 3115C	T-15	6 7/8"	1 1/2 oz.
41 3120C	T-20	7"	1 1/2 oz.
41 3125C	T-25	7 1/2"	3 oz.
41 3127C	T-27	8"	3 oz.
41 3130C	T-30	8 1/2"	3 1/2 oz.

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**I. Nut Drivers**

High quality, hollow shank nut drivers with color coded handles for easy identification. Strong, chrome plated shank.

Color Code Key: 

3/16" Black	5/16" Yellow	7/16" Brown
1/4" Red	1 1/32" Green	1/2" Red
9/32" Blue		

Item No.	Size	Length	Wt.
40 606	3/16"	6 5/8"	3 oz.
40 608	1/4"	6 5/8"	3 oz.
40 610	5/16"	6 5/8"	3 oz.
40 611	11/32"	6 5/8"	3 oz.
40 612	3/8"	6 5/8"	4 oz.
40 614	7/16"	6 5/8"	4 oz.
40 616	1/2"	6 5/8"	4 oz.

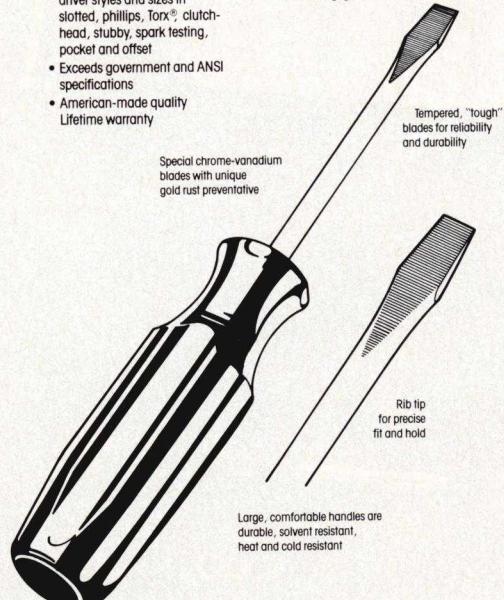
**J. Metric Nut Drivers**

Item No.	Size	Length	Wt.
40 655	5mm	6 5/8"	3 oz.
40 656	6mm	6 5/8"	3 oz.
40 657	7mm	6 5/8"	3 oz.
40 658	8mm	6 5/8"	4 oz.
40 659	9mm	6 5/8"	4 oz.
40 660	10mm	6 5/8"	4 oz.
40 661	11mm	6 5/8"	4 oz.

**Screwdrivers**

- Square and round shank screwdriver styles and sizes in slotted, phillips, clutch-head, stubby, spark testing, pocket and offset
- Exceeds government and ANSI specifications
- American-made quality Lifetime warranty

Accurate pointed tips allow for perfect screw engagement

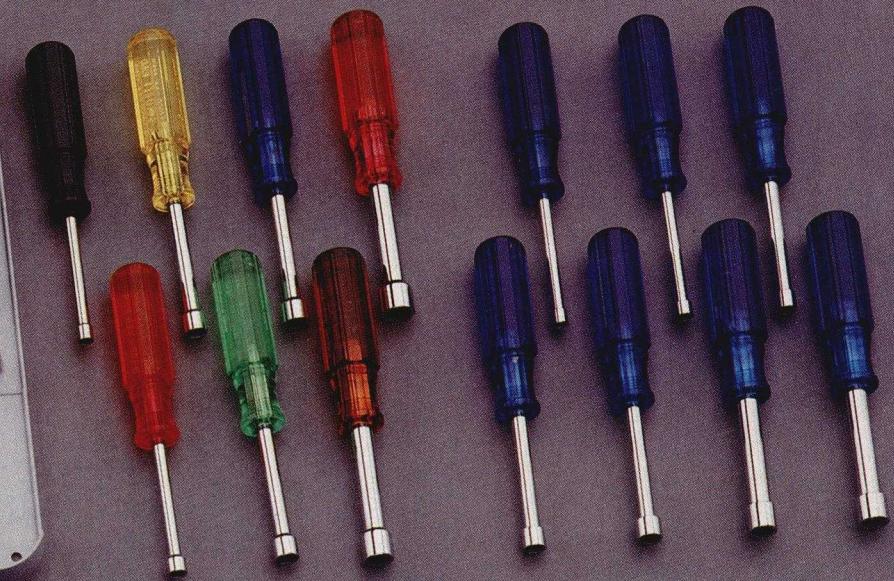




A

B

C



E

F

D



G



H

## A. 40 908 8 Piece Combination Screwdriver Set

### Contents:

40 004	1/8" x 3 1/2" Cabinet
40 511	3/16" x 3" Slotted (Cabinet)
40 513	1/4" x 4" Round Blade
40 500	#0 x 2 1/2" Phillips w/Clip
40 501	#1 x 3" Phillips
40 502	#2 x 4" Phillips
40 531	1/4" x 1 1/2" Stubby
40 532	#2 x 1 1/2" Stubby

Tray

## B. 40 906 6 Piece Combination Screwdriver Set

### Contents:

40 511	3/16" x 3" Slotted (Cabinet)
40 513	1/4" x 4" Round Blade
40 514	1/4" x 6" Round Blade
40 501	#1 x 3" Phillips
40 502	#2 x 4" Phillips
40 507	#2 x 6 Phillips

Tray

## C. 40 936 6 Piece Slotted Screwdriver Set

### Contents:

40 533	1/8" x 2 1/2" Pocket
40 004	1/8" x 3 1/2" Cabinet
40 511	3/16" x 3" Slotted (Cabinet)
40 513	1/4" x 4" Round Blade
40 514	1/4" x 6" Round Blade
40 515	5/16" x 6" Round Blade

Tray

## D. 40 916 6 Piece Phillips Screwdriver Set

### Contents:

40 500	#0 x 2 1/2" Phillips
40 501	#1 x 3" Phillips
40 505	#1 x 6" Phillips
40 502	#2 x 4" Phillips
40 507	#2 x 6" Phillips
40 503	#3 x 6" Phillips

Tray

## E. 40 901 7 Piece Nut Driver Set

### Contents:

40 606	3/16"
40 608	1/4"
40 610	5/16"
40 611	11/32"
40 612	3/8"
40 614	7/16"
40 616	1/2"

Vinyl Pouch

## F. 40 904 7 Piece Metric Nut Driver Set

### Contents:

40 655	5mm
40 656	6mm
40 657	7mm
40 658	8mm
40 659	9mm
40 660	10mm
40 661	11mm

Vinyl Pouch

## G. 40 931 25 Piece 1/4" Drive Screwdriver and Nut Driver Set

### Contents:

41 0101	3/8" to 1/4" Service Bit Holder
41 0105	Magnetic Bit Holder
41 0110	1/4" Hex Adapter
41 0130	Magnetic Screwdriver Handle
41 1015	T-15 Torx® Insert Bit
41 1020	T-20 Torx® Insert Bit
41 1025	T-25 Torx® Insert Bit
41 1030	T-30 Torx® Insert Bit
41 1040	T-40 Torx® Insert Bit
41 1901	#1 Phillips Insert Bit
41 1902	#2 Phillips Insert Bit
41 1903	#3 Phillips Insert Bit
41 1924	4-5 Slotted Insert Bit
41 1925	5-6 Slotted Insert Bit
41 1926	6-8 Slotted Insert Bit
41 1928	8-10 Slotted Insert Bit
51 1106	3/16" 6 PT Socket
51 1108	1/4" 6 PT Socket
51 1109	9/32" 6 PT Socket
51 1110	5/16" 6 PT Socket
51 1111	11/32" 6 PT Socket
51 1112	3/8" 6 PT Socket
51 1114	7/16" 6 PT Socket
51 1116	1/2" 6 PT Socket

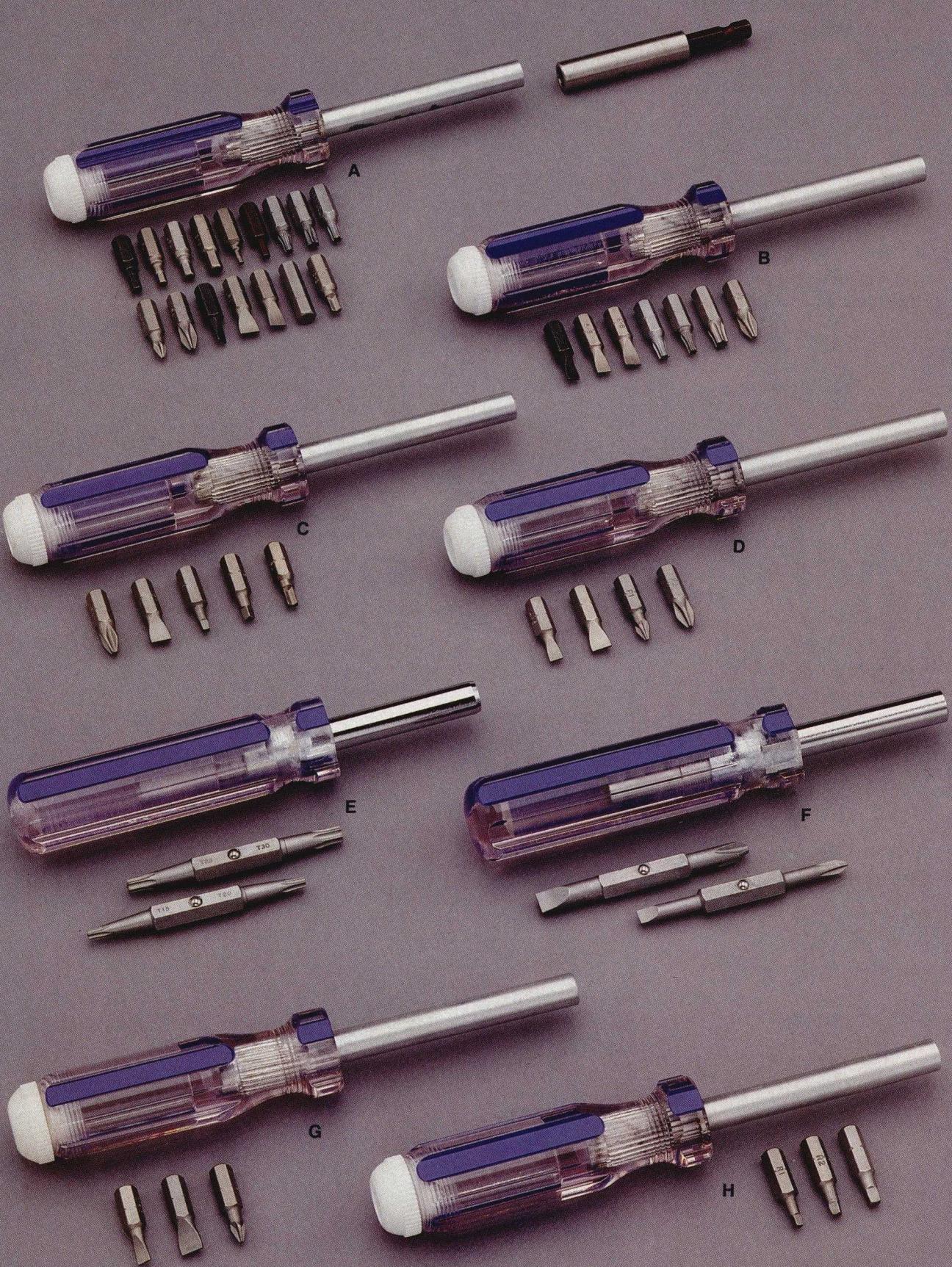
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## H. 40 930 25 Piece 1/4" Drive Metric Screwdriver and Nut Driver Set

### Contents:

41 0101	3/8" to 1/4" Service Bit Holder
41 0105	Magnetic Bit Holder
41 0110	1/4" Hex Adapter
41 0130	Magnetic Screwdriver Handle
41 1015	T-15 Torx® Insert Bit
41 1020	T-20 Torx® Insert Bit
41 1025	T-25 Torx® Insert Bit
41 1030	T-30 Torx® Insert Bit
41 1040	T-40 Torx® Insert Bit
41 1901	#1 Phillips Insert Bit
41 1902	#2 Phillips Insert Bit
41 1903	#3 Phillips Insert Bit
41 1924	4-5 Slotted Insert Bit
41 1925	5-6 Slotted Insert Bit
41 1926	6-8 Slotted Insert Bit
41 1928	8-10 Slotted Insert Bit
51 6105	5mm 6 PT Socket
51 6106	6mm 6 PT Socket
51 6107	7mm 6 PT Socket
51 6108	8mm 6 PT Socket
51 6109	9mm 6 PT Socket
51 6110	10mm 6 PT Socket
51 6111	11mm 6 PT Socket
51 6112	12mm 6 PT Socket

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**A. 41 9019 19 Piece Fastener Kit**

**Contents:**

41 0101	Service Bit Holder
41 0130	Magnetic Tip Screwdriver Handle
41 1015	T-15 Internal Torx® Insert Bit
41 1020	T-20 Internal Torx® Insert Bit
41 1025	T-25 Internal Torx® Insert Bit
41 1901	#1 Phillips Insert Bit
41 1902	#2 Phillips Insert Bit
41 1924	4-5 Slotted Insert Bit
41 1926	6-8 Slotted Insert Bit
41 1928	8-10 Slotted Insert Bit
41 1945	5/32" Clutchhead Insert Bit
41 2005	5/64" Hex Insert Bit
41 2007	7/64" Hex Insert Bit
41 2008	1/8" Hex Insert Bit
41 2009	9/64" Hex Insert Bit
41 2010	5/32" Hex Insert Bit
41 2012	3/16" Hex Insert Bit
41 2016	1/4" Hex Insert Bit
	Case

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**B. 41 9040C 8 Piece Insert Bit Set**

**Contents:**

41 1015	T-15 Internal Torx® Insert Bit
41 1020	T-20 Internal Torx® Insert Bit
41 1027	T-27 Internal Torx® Insert Bit
41 1924	4-5 Slotted Insert Bit
41 1925	5-6 Slotted Insert Bit
41 1926	6-8 Slotted Insert Bit
41 1902	#2 Phillips Insert Bit
41 0130	Magnetic Tip Screwdriver Handle

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**C. 41 9015C 6 Piece Magnetic RV Screwdriver Set**

Magnetic Screwdriver handle with bit storage in handle. Features bits for servicing recreational vehicles and boats.

**Contents:**

41 1902	#2 Phillips Insert Bit
41 1928	8-10 Slotted Insert Bit
41 1945	5/32" Clutchhead Insert Bit
41 1961	#1 Square Insert Bit
41 1962	#2 Square Insert Bit
41 0130	Magnetic Tip Screwdriver Handle

**D. 41 9001C 5 Piece General Purpose Magnetic Screwdriver Set**

Magnetic screwdriver handle with storage compartment.

**Contents:**

41 1901	#1 Phillips Insert Bit
41 1902	#2 Phillips Insert Bit
41 1924	4-5 Slotted Insert Bit
41 1928	8-10 Slotted Insert Bit
41 0130	Magnetic Tip Screwdriver Handle

**E. 41 9020C 5 Piece Quick Change Screwdriver Set**

Interchangeable shank and bits. Bits not in use store neatly in handle shank.

**Contents:**

#1 Phillips Insert Bit
#2 Phillips Insert Bit
5-8 Slotted Insert Bit
8-12 Slotted Insert Bit
Quick Change Screwdriver Handle

**F. 41 9030C 5 Piece Quick Change Internal Torx® Screwdriver Set**

Magnetic screwdriver handle with storage compartment.

**Contents:**

T-15 Internal Torx® Insert Bit
T-20 Internal Torx® Insert Bit
T-25 Internal Torx® Insert Bit
T-30 Internal Torx® Insert Bit
Quick Change Screwdriver Handle

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**G. 41 9005C 4 Piece Standard Magnetic Screwdriver Set**

Magnetic screwdriver handle with bit storage inside handle.

**Contents:**

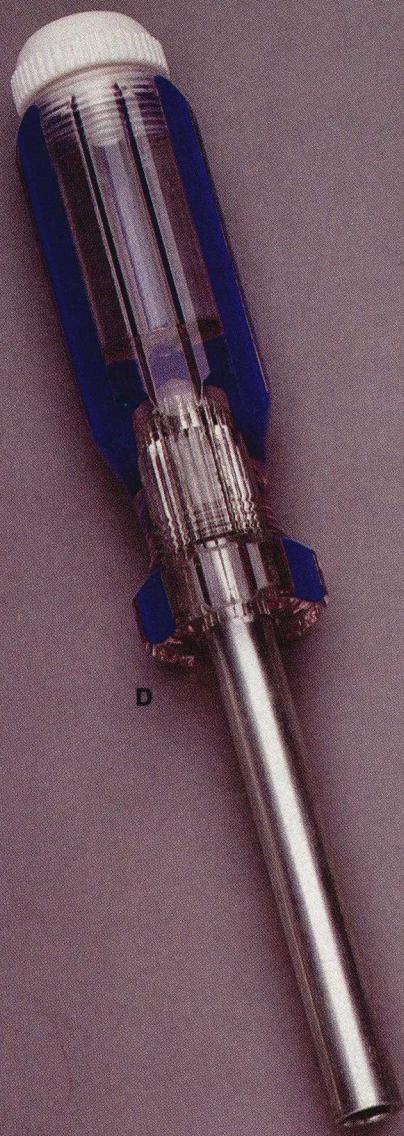
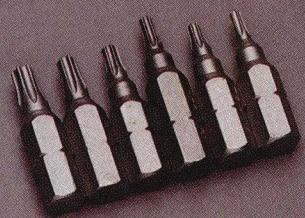
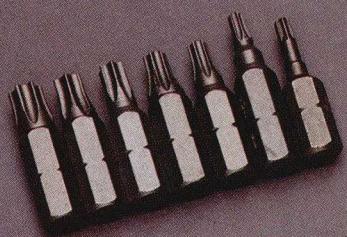
41 1901	#1 Phillips Insert Bit
41 1924	4-5 Slotted Insert Bit
41 1928	8-10 Slotted Insert Bit
41 0130	Magnetic Tip Screwdriver Handle

**H. 41 9010C 4 Piece Robertson Magnetic Screwdriver Set**

Magnetic screwdriver handle with bit storage compartment.

**Contents:**

41 1961	#1 Square Insert Bit
41 1962	#2 Square Insert Bit
41 1963	#3 Square Insert Bit
41 0130	Magnetic Tip Screwdriver Handle



**A. 41 1057C 7 Piece Internal Torx® Insert Bit Set 1/4" Drive**

**Contents:**

41 1009	T-9
41 1010	T-10
41 1015	T-15
41 1020	T-20
41 1025	T-25
41 1027	T-27
41 1030	T-30

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**B. 41 1056C 6 Piece Internal Torx® Insert Bit Set 1/4" Drive**

**Contents:**

41 1007	T-7
41 1008	T-8
41 1009	T-9
41 1010	T-10
41 1015	T-15
41 1020	T-20

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**C. 42 2000C 8 Piece Tamper Proof Torx® Insert Bit Set**

Use to remove and install tamper resistant Torx® fasteners found in many automotive and industrial applications.

**Contents:**

42 2010C	T-10
42 2015C	T-15
42 2020C	T-20
42 2025C	T-25
42 2027C	T-27
42 2030C	T-30
42 2040C	T-40
41 0101C	1/4" Drive to 3/16" Hex Bit Holder

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**D. Magnetic Screwdriver Bit Handle**

Handle accepts interchangeable hex shank insert bits. Magnet holds bit securely. Hollow plastic handle for storing bits.

Item No.	Size	Length	Wt.
41 0130C	1/4"	7"	3 oz.

**E. Stubby Magnetic Screwdriver Bit Handle**

Fits all 1/4" hex insert bits. Magnet in shank securely holds bit in place. Ideal for use on fasteners that may be situated in positions that are not accessible with standard length magnetic screwdriver bit handles.

Item No.	Length	Wt.
41 0120	2 7/8"	1 1/2 oz.

**F. Service Bit Holders**

Item No.	Size	Length	Wt.
41 0101C	3/8" Drive to 1/4" Hex	1"	1/2 oz.
41 0102C	3/8" Drive to 5/16" Hex	1"	1/2 oz.

**G. Adapters - 1/4" Drive**

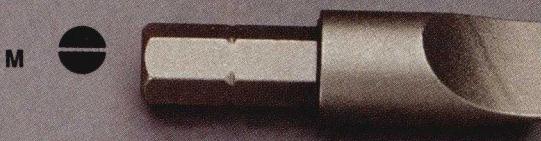
Adapt 1/4" square drive sockets to 1/4" magnetic screwdriver handle.

Item No.	Size	Length	Wt.
41 0110C	1/4" Square Adapter	1"	1/2 oz.
41 0115	1/4" Square Adapter - 90°	1"	3/4 oz.

**H. Magnetic Bit Holder**

Serves as extension for magnetic screwdrivers and connects 1/4" hex shank insert bits to variable speed drill.

Item No.	Size	Length	Wt.
41 0105C	1/4" Hex	3"	1 oz.



Actual Torx® sizes shown below

•  
No. T- 7

•  
No. T- 8

•  
No. T- 9

•  
No. T-10

•  
No. T-10

•  
No. T-15

•  
No. T-20

•  
No. T-25

•  
No. T-15

•  
No. T-20

•  
No. T-25

•  
No. T-27

•  
No. T-27

•  
No. T-30

•  
No. T-40

•  
No. T-30

•  
No. T-40

•  
No. T-45

•  
No. T-50

•  
No. T-45

•  
No. T-50

•  
No. T-55

•  
No. T-55

•  
No. T-60

Actual Tamper Proof Torx® sizes shown below

•  
No. T- 7

•  
No. T-15

•  
No. T-20

•  
No. T-25

•  
No. T-15

•  
No. T-30

•  
No. T-40

•  
No. T-45

•  
No. T-50

•  
No. T-55

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## 1/4" Drive Insert Bits

1/4" hex shank fits magnetic screwdriver handles.

Item No.	Description	Length	Wt.
A. 41 1007C	T-7 Torx®	1"	1/2 OZ.
41 1008C	T-8 Torx®	1"	1/2 OZ.
41 1009C	T-9 Torx®	1"	1/2 OZ.
41 1010C	T-10 Torx®	1"	1/2 OZ.
41 1015C	T-15 Torx®	1"	1/2 OZ.
41 1020C	T-20 Torx®	1"	1/2 OZ.
41 1025C	T-25 Torx®	1"	1/2 OZ.
41 1027C	T-27 Torx®	1"	1/2 OZ.
41 1030C	T-30 Torx®	1"	1/2 OZ.
41 1040C	T-40 Torx®	1"	1/2 OZ.
B. 41 1900C	#0 Phillips	1"	1/2 OZ.
41 1901C	#1 Phillips	1"	1/2 OZ.
41 1902C	#2 Phillips	1"	1/2 OZ.
41 1903C	#3 Phillips	1"	1/2 OZ.
C. 41 1924C	4-5 Slotted	1"	1/2 OZ.
41 1925C	5-6 Slotted	1"	1/2 OZ.
41 1926C	6-8 Slotted	1"	1/2 OZ.
41 1928C	8-10 Slotted	1"	1/2 OZ.
D. 41 1945C	5/32" Clutchhead	1"	1/2 OZ.
41 1946C	3/16" Clutchhead	1"	1/2 OZ.
E. 41 1961C	#1 Square	1"	1/2 OZ.
41 1962C	#2 Square	1"	1/2 OZ.
41 1963C	#3 Square	1"	1/2 OZ.
F. 41 1971	#1 POZI	1"	1/2 OZ.
41 1972	#2 POZI	1"	1/2 OZ.
41 1973	#3 POZI	1"	1/2 OZ.
G. 41 2004	1/16" Hex	1"	1/2 OZ.
41 2005	5/64" Hex	1"	1/2 OZ.
41 2006	3/32" Hex	1"	1/2 OZ.
41 2007	7/64" Hex	1"	1/2 OZ.
41 2008	1/8" Hex	1"	1/2 OZ.
41 2009	9/64" Hex	1"	1/2 OZ.
41 2010	5/32" Hex	1"	1/2 OZ.
41 2012	3/16" Hex	1"	1/2 OZ.
41 2014	7/32" Hex	1"	1/2 OZ.
41 2016	1/4" Hex	1"	1/2 OZ.
41 2020	5/16" Hex	1"	1/2 OZ.
41 2101	2mm Hex	1"	1/2 OZ.
41 2102	2.5mm Hex	1"	1/2 OZ.
41 2103	3mm Hex	1"	1/2 OZ.
41 2104	4mm Hex	1"	1/2 OZ.
41 2105	5mm Hex	1"	1/2 OZ.
41 2106	6mm Hex	1"	1/2 OZ.
41 2107	7mm Hex	1"	1/2 OZ.
41 2108	8mm Hex	1"	1/2 OZ.
H. 42 2010C	T-10 Tamper Proof Torx®	1"	1/2 OZ.
42 2015C	T-15 Tamper Proof Torx®	1"	1/2 OZ.
42 2020C	T-20 Tamper Proof Torx®	1"	1/2 OZ.
42 2025C	T-25 Tamper Proof Torx®	1"	1/2 OZ.
42 2027C	T-27 Tamper Proof Torx®	1"	1/2 OZ.
42 2030C	T-30 Tamper Proof Torx®	1"	1/2 OZ.
42 2040C	T-40 Tamper Proof Torx®	1"	1/2 OZ.

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## 5/16" Drive Insert Bits

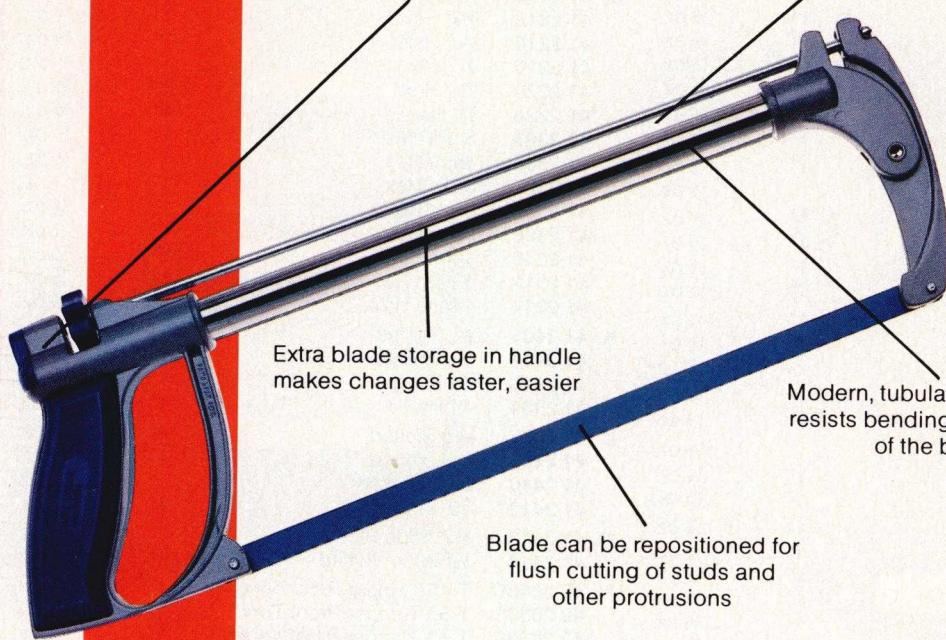
5/16" hex shank fits magnetic screwdriver handles.

Item No.	Description	Length	Wt.
I. 41 1130C	T-30 Torx®	1"	1/2 OZ.
41 1140C	T-40 Torx®	1"	1/2 OZ.
41 1145C	T-45 Torx®	1"	1/2 OZ.
41 1150C	T-50 Torx®	1"	1/2 OZ.
41 1155C*	T-55 Torx®	1"	1/2 OZ.
J. 41 2210	5/32" Hex	1"	1/2 OZ.
41 2212	3/16" Hex	1"	1/2 OZ.
41 2214	7/32" Hex	1"	1/2 OZ.
41 2216	1/4" Hex	1"	1/2 OZ.
41 2220	3/8" Hex	1"	1/2 OZ.
41 2224	5/8" Hex	1"	1/2 OZ.
41 2303	3mm Hex	1"	1/2 OZ.
41 2304	4mm Hex	1"	1/2 OZ.
41 2305	5mm Hex	1"	1/2 OZ.
41 2306	6mm Hex	1"	1/2 OZ.
41 2308	8mm Hex	1"	1/2 OZ.
41 2310	10mm Hex	1"	1/2 OZ.
41 2312	12mm Hex	1"	1/2 OZ.
41 2314	14mm Hex	1"	1/2 OZ.
K. 41 2401	#1 Phillips	1"	1/2 OZ.
41 2402	#2 Phillips	1"	1/2 OZ.
41 2403	#3 Phillips	1"	1/2 OZ.
41 2404	#4 Phillips	1"	1/2 OZ.
L. 41 2405	4-5 Slotted	1"	1/2 OZ.
41 2406	6-8 Slotted	1"	1/2 OZ.
41 2410	8-10 Slotted	1"	1/2 OZ.
41 2412	12-14 Slotted	1"	1/2 OZ.
M. 41 2413	5/32" Wide Slotted	1"	1/2 OZ.
41 2414	1/2" Wide Slotted	1"	1/2 OZ.
N. 42 2045C	T-45 Tamper Proof Torx®	1"	1/2 OZ.
42 2050C	T-50 Tamper Proof Torx®	1"	1/2 OZ.
42 2055C	T-55 Tamper Proof Torx®	1"	1/2 OZ.

Torx® is a registered trademark of CAMCAR, Div. of TEXTRON, Inc.

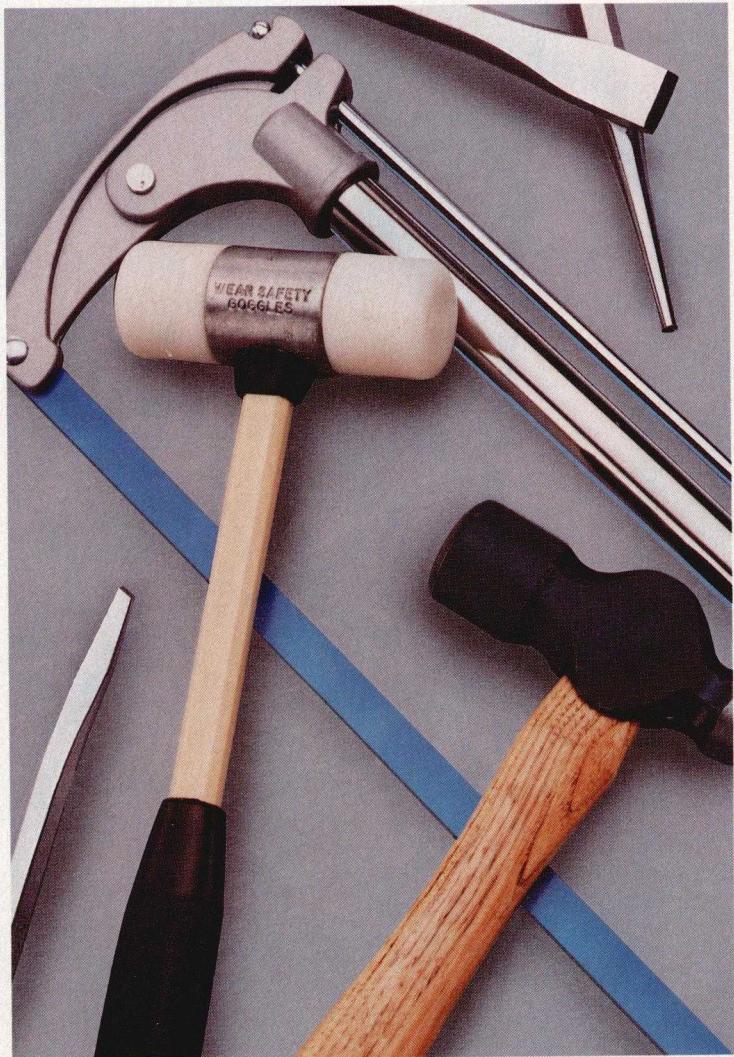
\* Bit size is 7/16" hex shank

**KD 21 360  
Hacksaw  
Challenger**



**KD 81 716  
Ball Pein  
Hammer**





STRIKING & CUTTING TOOLS



## A. Ball Pein Hammers

Forged and hardened steel heads are carefully beveled for proper striking angle and chamfered to prevent chipping. Rounded ball pein for pounding out round surfaces and peining over bolts. Hickory handles.

**Caution: Wear Safety Goggles**

Item No.	Head Weight	Length	Wt.
81 702	2 oz.	10"	4 oz.
81 704	4 oz.	10½"	5½ oz.
81 708	8 oz.	12¼"	12 oz.
81 712	12 oz.	13½"	1 lb. 2 oz.
81 716	16 oz.	14¼"	1 lb. 5 oz.
81 720	20 oz.	14½"	1 lb. 9½ oz.
81 724	24 oz.	15½"	1 lb. 14½ oz.
81 732	32 oz.	16"	2 lbs. 6 oz.
81 740	40 oz.	16"	2 lbs. 13 oz.
81 748	48 oz.	16"	3 lbs. 9 oz.

## B. Drilling Hammers

Heavy duty forged head with high grade hickory handle.

**Caution: Wear Safety Goggles**

Item No.	Length	Wt.
81 252	10"	2 lbs.
81 253	10"	3 lbs.
81 254	10"	4 lbs.

## C. Soft-Face Hammer

Molded plastic (replaceable tips) ideal for striking objects without marring.

**Caution: Wear Safety Goggles**

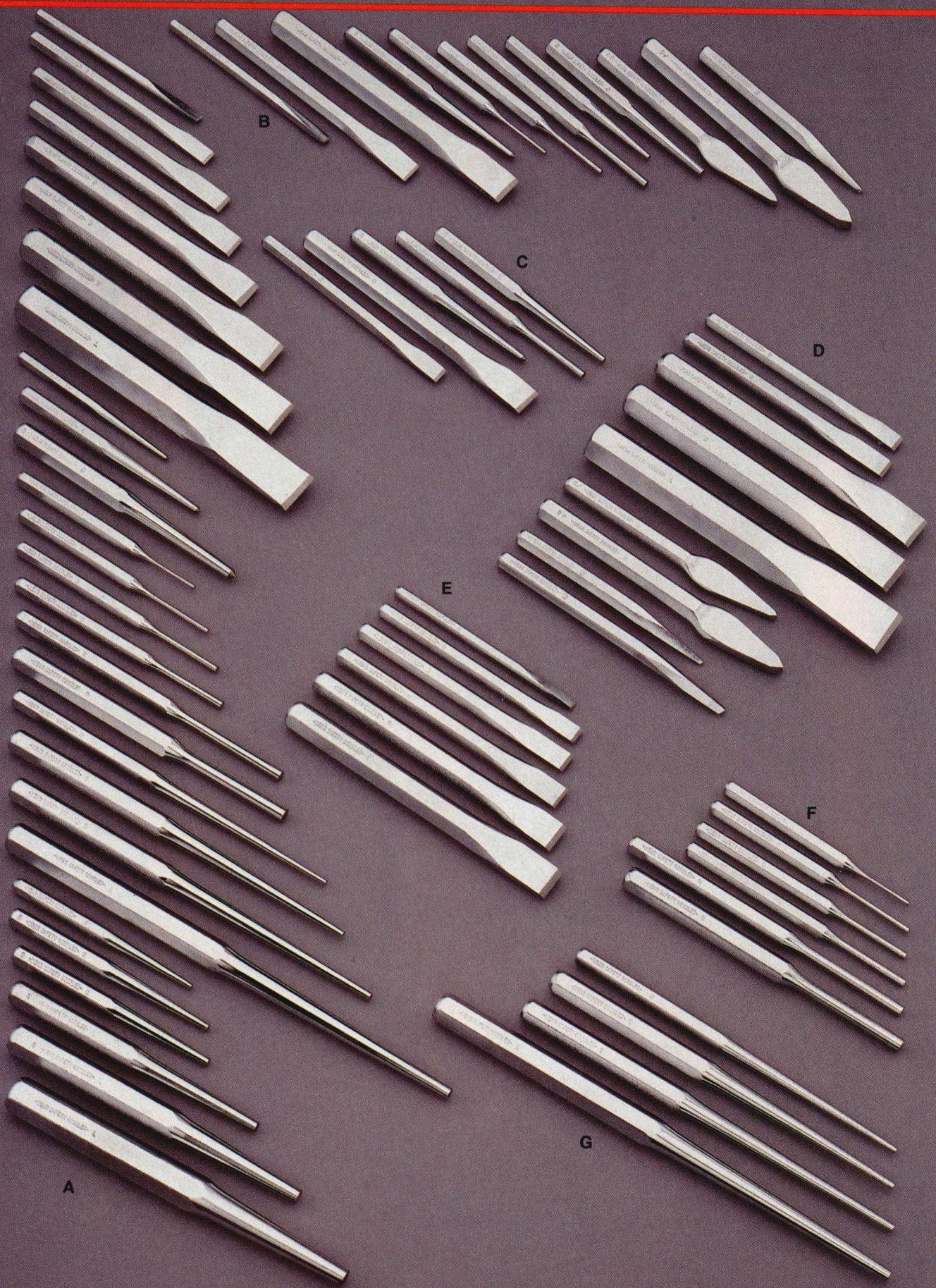
Item No.	Description	Length	Wt.
81 600	12 oz. Hammer	11½"	15 oz.
81 601	Replacement Tip for 81 600		

## D. Rubber Mallets

High grade rubber head securely pressure fitted on hickory handle.

**Caution: Wear Safety Goggles**

Item No.	Head Weight	Length	Wt.
81 220	20 oz.	13½"	1 lb. 5 oz.
81 228	28 oz.	16½"	2 lbs.



**A. 33 907 27 Piece Punch and Chisel Master Set**
**Caution: Wear Safety Goggles**

Item No.	Description	Length	Tip
33 100	Cold Chisel	4 $\frac{3}{4}$ "	1/4"
33 101	Cold Chisel	5 $\frac{1}{4}$ "	5/8"
33 102	Cold Chisel	5 $\frac{1}{2}$ "	7/16"
33 103	Cold Chisel	6"	1/2"
33 104	Cold Chisel	6 $\frac{1}{2}$ "	5/8"
33 105	Cold Chisel	7"	3/4"
33 106	Cold Chisel	7 $\frac{1}{2}$ "	7/8"
33 107	Cold Chisel	8"	1"
33 110	Center Punch	4 $\frac{1}{4}$ "	1/4"
33 111	Center Punch	5"	5/8"
33 112	Center Punch	6"	1/2"
33 119	Pin Punch	4 $\frac{3}{4}$ "	5/32"
33 120	Pin Punch	5"	1/8"
33 121	Pin Punch	5 $\frac{1}{4}$ "	5/32"
33 122	Pin Punch	5 $\frac{1}{2}$ "	3/16"
33 123	Pin Punch	7"	1/4"
33 124	Pin Punch	7"	5/16"
33 129	Drift Punch	8"	1/8"
33 130	Drift Punch	8 $\frac{1}{2}$ "	5/32"
33 131	Drift Punch	9"	3/16"
33 132	Drift Punch	11"	1/4"
33 139	Starter Punch	4 $\frac{1}{2}$ "	1/8"
33 140	Starter Punch	5"	5/32"
33 141	Starter Punch	5"	3/16"
33 142	Starter Punch	6"	1/4"
33 143	Starter Punch	7"	5/16"
33 144	Starter Punch	8"	5/8"
	Vinyl Tool Roll		

**B. 33 912 12 Piece Punch and Chisel Set**
**Caution: Wear Safety Goggles**

Item No.	Description	Length	Tip
33 100	Cold Chisel	4 $\frac{3}{4}$ "	1/4"
33 103	Cold Chisel	6"	1/2"
33 105	Cold Chisel	7"	3/4"
33 111	Center Punch	5"	5/8"
33 119	Pin Punch	4 $\frac{3}{4}$ "	5/32"
33 120	Pin Punch	5"	1/8"
33 122	Pin Punch	5 $\frac{1}{2}$ "	3/16"
33 139	Starter Punch	4 $\frac{1}{2}$ "	1/8"
33 141	Starter Punch	5"	5/32"
33 150	Cape Chisel	5"	1/4"
33 151	Cape Chisel	6"	5/8"
33 160	Diamond Point Chisel	5"	1/8"
	Vinyl Tool Roll	5"	1/8"

**C. 33 911 5 Piece Punch and Chisel Set**
**Caution: Wear Safety Goggles**

Item No.	Description	Length	Tip
33 101	Cold Chisel	5 $\frac{1}{4}$ "	5/8"
33 104	Cold Chisel	6 $\frac{1}{2}$ "	5/8"
33 111	Center Punch	5"	3/8"
33 122	Pin Punch	5 $\frac{1}{2}$ "	3/16"
33 140	Starter Punch	5"	5/32"
	Vinyl Pouch		

**D. 33 904 9 Piece Chisel Set**
**Caution: Wear Safety Goggles**

Item No.	Description	Length	Tip
33 101	Cold Chisel	5 $\frac{1}{4}$ "	5/8"
33 102	Cold Chisel	5 $\frac{1}{2}$ "	7/16"
33 105	Cold Chisel	7"	3/4"
33 106	Cold Chisel	7 $\frac{1}{2}$ "	7/8"
33 107	Cold Chisel	8"	1"
33 150	Cape Chisel	5"	1/4"
33 151	Cape Chisel	6"	5/8"
33 160	Diamond Point Chisel	5"	1/8"
33 161	Diamond Point Chisel	6"	1/4"
	Vinyl Tool Roll		

**E. 33 908 6 Piece Cold Chisel Set**
**Caution: Wear Safety Goggles**

Item No.	Description	Length	Tip
33 100	Cold Chisel	4 $\frac{3}{4}$ "	1/4"
33 101	Cold Chisel	5 $\frac{1}{4}$ "	5/8"
33 102	Cold Chisel	5 $\frac{1}{2}$ "	7/16"
33 103	Cold Chisel	6"	1/2"
33 104	Cold Chisel	6 $\frac{1}{2}$ "	5/8"
33 105	Cold Chisel	7"	5/8"
	Vinyl Pouch		

**F. 33 905 6 Piece Pin Punch Set**
**Caution: Wear Safety Goggles**

Item No.	Description	Length	Tip
33 119	Pin Punch	4 $\frac{3}{4}$ "	5/32"
33 120	Pin Punch	5"	1/8"
33 121	Pin Punch	5 $\frac{1}{4}$ "	5/32"
33 122	Pin Punch	5 $\frac{1}{2}$ "	3/16"
33 123	Pin Punch	7"	1/4"
33 124	Pin Punch	7"	5/16"
	Vinyl Pouch		

**G. 33 910 4 Piece Drift Punch Set**

Item No.	Description	Length	Tip
33 129	Drift Punch	8"	1/8"
33 130	Drift Punch	8 $\frac{1}{2}$ "	5/32"
33 131	Drift Punch	9"	3/16"
33 132	Drift Punch	11"	1/4"
	Vinyl Pouch		



**A. Diamond Point Chisels**

Diamond shaped tip for cutting V-grooves or cleaning inside corners.

**Caution: Wear Safety Goggles**

Item No.	Tip	Length	Hex
33 160	1/8"	5"	3/8"
33 161	1/4"	6"	3/8"

**B. Cape Chisels**

Thin point for cutting narrow grooves, keyways and slots.

**Caution: Wear Safety Goggles**

Item No.	Tip	Length	Hex
33 150	1/4"	5"	3/8"
33 151	3/8"	6"	1/2"

**C. Cold Chisels**

For general purpose cutting and chipping.

**Caution: Wear Safety Goggles**

Item No.	Tip	Length	Hex
33 100	1/4"	4 3/4"	1/4"
33 101	3/8"	5 1/4"	5/16"
33 102	7/16"	5 1/2"	3/8"
33 103	1/2"	6"	3/8"
33 104	5/8"	6 1/2"	1/2"
33 105	3/4"	7"	5/8"
33 106	7/8"	7 1/2"	3/4"
33 107	1"	8"	7/8"

**D. Pin Punches**

Centerless ground for accuracy. Reversed taper point which prevents punch from sticking in the work piece.

**Caution: Wear Safety Goggles**

Item No.	Tip	Length	Hex
33 119	5/32"	4 3/4"	5/16"
33 120	1/8"	5"	5/16"
33 121	5/32"	5 1/4"	5/16"
33 122	3/16"	5 1/2"	5/16"
33 123	1/4"	7"	3/8"
33 124	5/16"	7"	1/2"

**E. Center Punches**

Mark intersecting center lines, hole locations and pilot drill. Use to mark center of hole for drilling.

**Caution: Wear Safety Goggles**

Item No.	Tip	Length
33 110	1/4"	4 1/4"
33 111	3/8"	5"
33 112	1/2"	6"

**F. Starter Punches**

To start the removal of tight pins, keys and rivets.

**Caution: Wear Safety Goggles**

Item No.	Tip	Length	Hex
33 139	1/8"	4 1/2"	5/16"
33 140	5/32"	5"	3/8"
33 141	3/16"	5"	3/8"
33 142	1/4"	6"	1/2"
33 143	5/16"	7"	5/8"
33 144	3/8"	8"	3/4"

**G. Drift Punches**

Install/remove pins and shafts. Align holes on metal pieces for screw or bolt insertion.

**Caution: Wear Safety Goggles**

Item No.	Tip	Length	Hex
33 129	1/8"	8"	3/8"
33 130	5/32"	8 1/2"	1/2"
33 131	3/16"	9"	1/2"
33 132	1/4"	11"	5/8"

**H. Pry Bar**

Remove bushings, bearings, grease cups, grease retainers, ball races and cylinder heads with pry tip. Align metal holes with taper tip.

**Caution: Wear Safety Goggles**

Item No.	Size	Length	Wt.
37 011	2 5/8"	18"	2 lbs.

**I. Wrecking Bars**

Heavy duty steel bars for prying and pulling. Forged and hardened steel with polished tips.

**Caution: Wear Safety Goggles**

Item No.	Length	Wt.
37 018	18"	2 lbs.
37 024	24"	4 lbs.
37 036	36"	5 lbs.

**J. Baracuda Bars**

Small prying tool for pulling tacks and nails. Ideal for lifting, prying and ripping.

**Caution: Wear Safety Goggles**

Item No.	Length	Wt.
37 045	14 1/2"	7 oz.

**K. Pinch Bar**

For prying, alignment work, and many other purposes. One end has a long, sharp, pointed taper and the other end a sharp, curved leverage blade.

Item No.	Size	Length	Wt.
33 170	5/8"	16"	1 lb. 4 oz.



**A. Hacksaw-Challenger**

High tension adjustment keeps blades rigid. Heavy duty tubular frame with die cast end and handle resists twisting and bending. Removable pins for quick change to flush cutting. Blades store in handle. Comfortable grip. Accommodates 12" blades only.

**Caution: Wear Safety Goggles**

Item No.	Length	Wt.
21 360	16 1/4"	1 lb. 2 oz

**B. Adjustable Hacksaw**

Rigid, tubular construction with reinforced die cast handle and front end resists bending and twisting. Adjusts for 10" and 12" blades. Comfortable, contoured grip.

**Caution: Wear Safety Goggles**

Item No.	Length	Wt.
21 600	16 1/2"	1 lb. 2 oz.

**C. Adjustable Hacksaw-Corvette**

Strong tubular frame with die cast front end and handle holds 10" and 12" blades. Resists bending and twisting. Comfortable grip.

**Caution: Wear Safety Goggles**

Item No.	Length	Wt.
21 065	15 3/4"	14 oz.

**D. Jab Saw**

Strong handle securely holds blades for cutting in tight spots. Handle comfortably fits hand. Holds any length blade. Cut flush with flexible blades.

**Caution: Wear Safety Goggles**

Item No.	Length	Wt.
21 045C	12 3/4"	13 oz.

**E. High Speed Hacksaw Blades**

Alloy blades for cutting nickel, high carbon steel, and other tough alloys quickly and cleanly. Each blade is 1/2" wide and .025" thick.

Item No.	Description	Length	Wt.
22 318	18-Teeth	10"	4 oz.
22 324	24-Teeth	10"	4 oz.
22 424	24-Teeth	12"	4 oz.
22 432	32-Teeth	12"	4 oz.

**F. Flexible Hacksaw Blades**

General use high carbon blades for cutting all non-ferrous metals and low carbon steels. Each blade is 1/2" wide and .025" thick.

Item No.	Description	Length	Wt.
22 018	18-Teeth	10"	4 oz.
22 024	24-Teeth	10"	4 oz.
22 218	18-Teeth	12"	4 oz.
22 224	24-Teeth	12"	4 oz.
22 232	32-Teeth	12"	4 oz.



**A. Scratch Awl**

Heavy duty scriber.

Item No.	Length	Wt.
32 007C	8 $\frac{3}{4}$ "	6 oz.

**Utility Knives**

Three styles of utility knives designed to fit the contour of the hand. Blade storage in handle. Heavy duty knives can be converted to scrapers with rear blade mount.

Item No.	Description	Length	Wt.
B. 31 100C	Heavy Duty	6 $\frac{1}{2}$ "	5 oz.
C. 31 101C	Standard Duty	6 $\frac{1}{2}$ "	4 oz.
D. 31 200C	Heavy Duty Retractable	6 $\frac{1}{2}$ "	5 oz.

**E. Blades**

Item No.	Description
31 400	Blades - 100 per box
31 405C	Blades - 5 per card

**F. Razor Blade Scraper**

Item No.	Length	Wt.
31 500C	4"	6 oz.

**G. Straight Pattern Snips**

For straight cuts on sheet metal, screening, chicken wire, linoleum, canvas, gaskets and other materials. Forged steel handles and blades.

Item No.	Description	Length	Wt.
23 103C	2" Blade	7"	7 oz.
23 104	2 $\frac{1}{4}$ " Blade	10"	14 $\frac{1}{2}$ oz.

**H. Aviation Pattern Snips**

Curved, 1 $\frac{3}{8}$ " blades easily pivot for continuous cutting of sheet metal, plastic, wire and cloth.

Item No.	Description	Length	Wt.
23 100C	Left Cutting - Red	10"	14 oz.
23 101C	Straight Cutting - Yellow	10"	14 oz.
23 102C	Right Cutting - Green	10"	14 oz.

# K-D Tools®

## Abused Tool Alert!

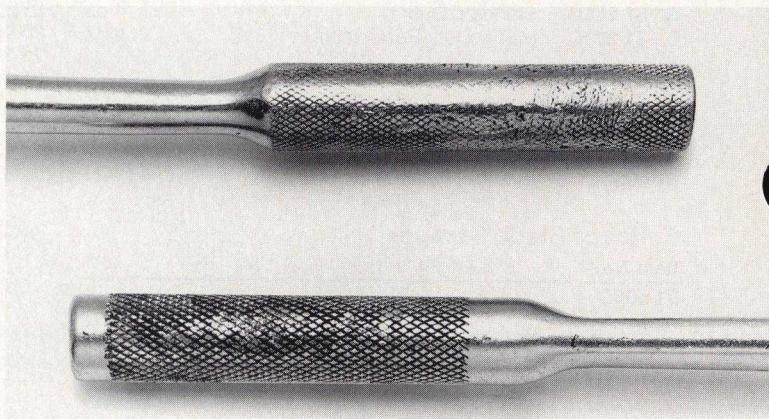
Nicked, worn handles indicate abuse with hammers and "cheater bars".

\*Use proper drive sizes or increase strength for amount of torque application needed.

K-D Tools stands behind its products and its customers with a time-honored reputation and a lifetime guarantee. "If any K-D hand or service tool does not perform under normal usage due to defects in material or workmanship, K-D Tools will repair or replace it at our option free of charge. Simply return the defective tool to the place of purchase for this service." Tools that are abused present a safety risk due to improper use. Remember to always protect your eyes.

**Tools that have been intentionally altered or used for something other than their intended purpose are not warranted.**

Below are some examples.



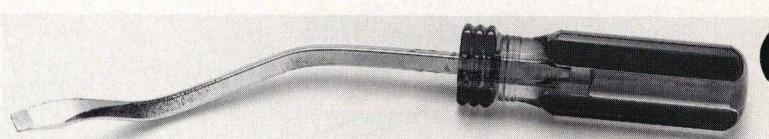
Rounding or mushrooming on all four corners of a square drive hole and side wall cracks show abuse and display use with an air powered impact wrench or air tool.

\*Use sockets indicated as "IMPACT" for use on Air Tools.



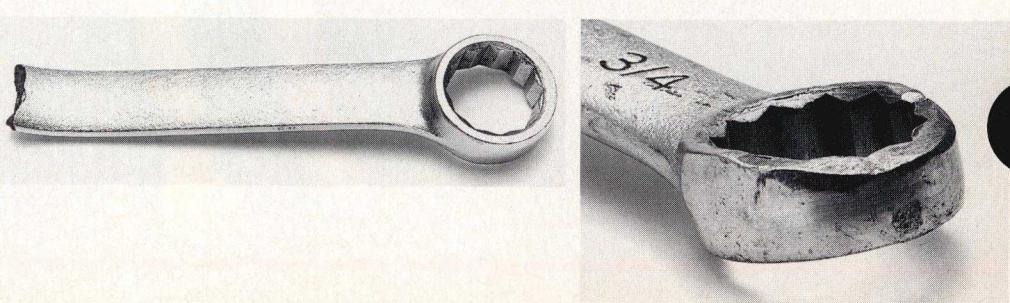
Broken, cracked handles and bent tips are signs of screwdrivers being used as a prying device.

\*Use Pry or Pinch Bars for this purpose.



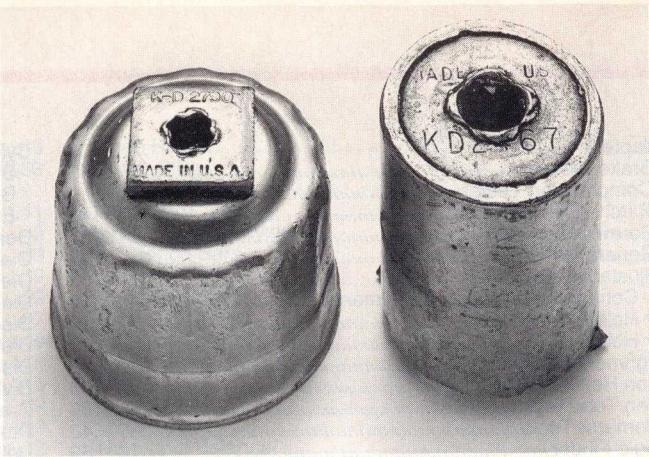
Dented, broken and cracked wrenches show misuse and exhibit use as a prying device.

\*Use Pry or Pinch Bars and Wrench designed for use with striking tools.



\*Suggested Proper Tools.

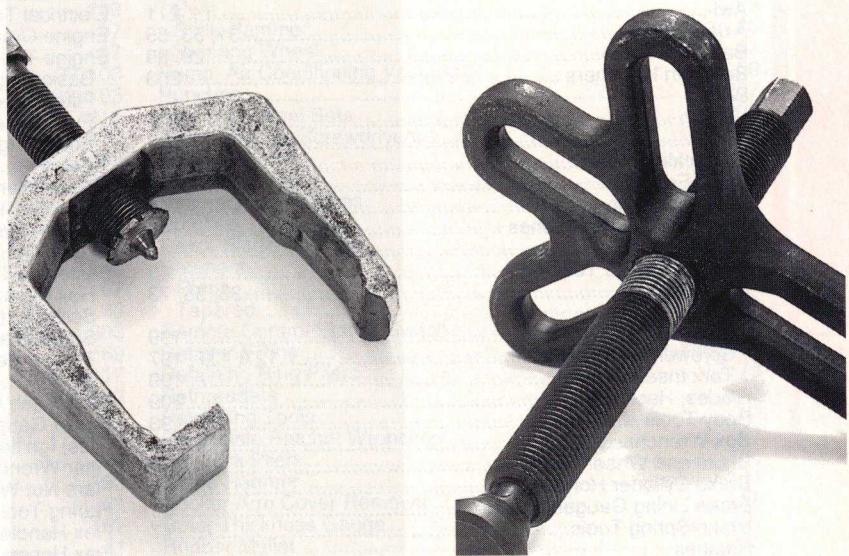
Impact abuse on non-impact designed product.  
\*Use with proper sized, hand operated tools only. No impacts.



Mushroomed load screws is an indication of overload abuse.

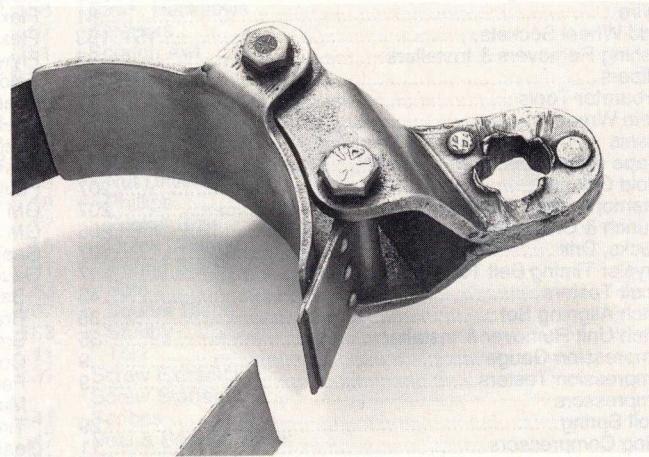
Stripped threads indicate a lack of tool maintenance (lubrication).

\*Proper maintenance is necessary for proper function of tools.



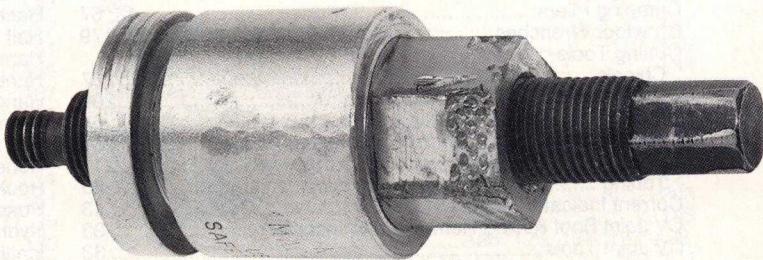
Modification of a tool through welding, grinding, or replacement with non-authorized parts, etc. voids warranty of the tools.

\*Use proper tools for application or return tool for repair.



Damage to the drive area indicates use of improper tools.

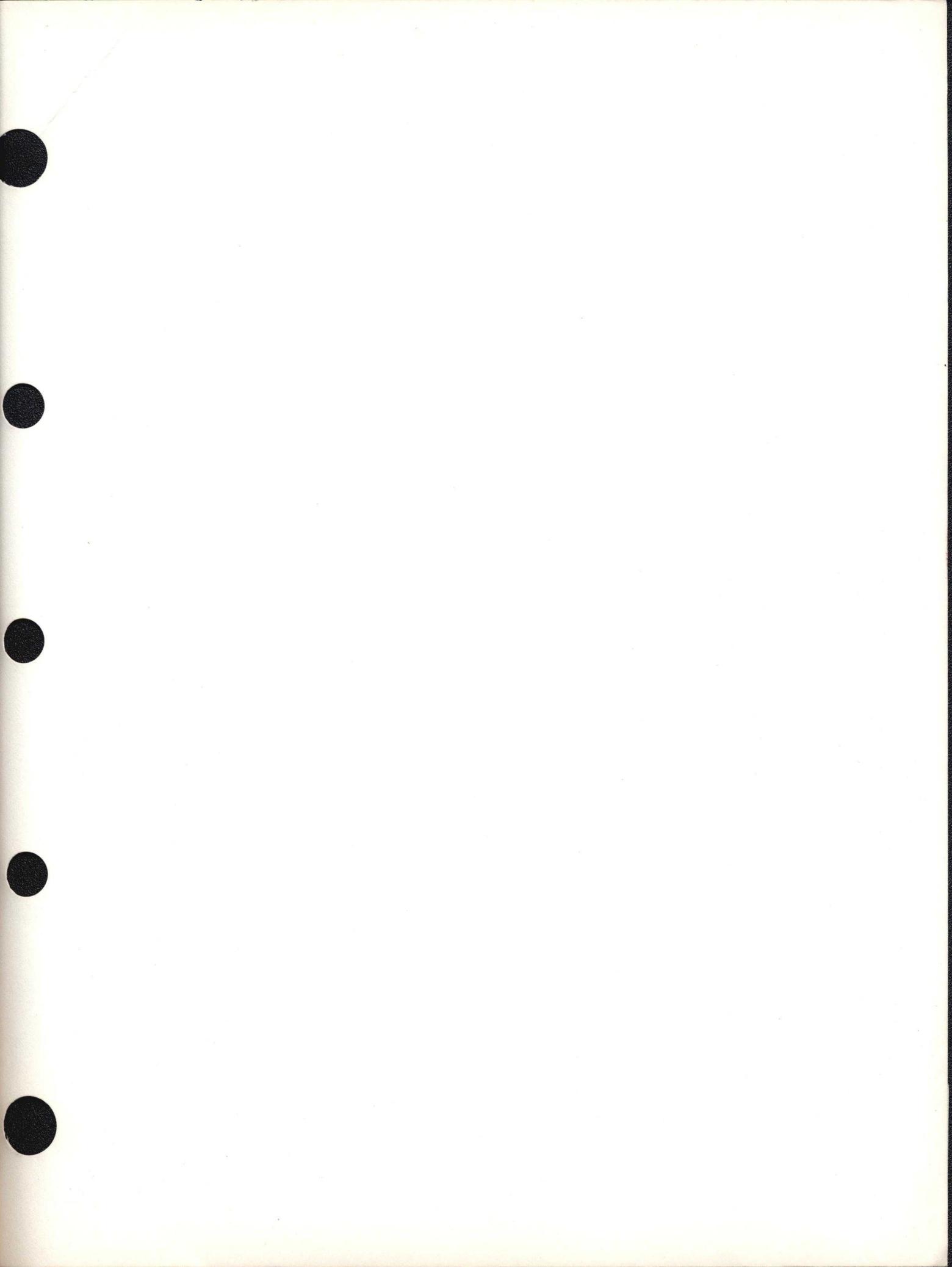
\*Always use proper drive tools.



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